ANNUAL REPORT

ON THE STATUS OF LAND USE ON OAHU

Fiscal Year 2020



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ACRONYMS AND ABBREVIATIONS

ACS American Community Survey

AMI Area Median Income

C/P Committed or Proposed Projects

DBEDT State Department of Business, Economic Development, and Tourism

DHHL Department of Hawaiian Home Lands

DP Development Plan

DPA Development Plan Area

DPSA Development Plan Sub Area

DPP Department of Planning and Permitting

FY Fiscal Year (July through June)

GP General Plan

HHPS Hawaii Housing Planning Study

HPHA Hawaii Public Housing Authority

MF Multi-Family

MOE Margin of Error

NUC Nonconforming Use Certificate

PIM Public Infrastructure Map

PUC Primary Urban Center

SCP Sustainable Communities Plan

SF Single Family

STR Short Term Rental

UA Unilateral Agreement

EXECUTIVE SUMMARY

This report updates the 2019 Annual Report on the Status of Land Use on Oahu to Fiscal Year (FY) 2020, which covers the period July 1, 2019 to June 30, 2020.

It should be noted that this time period extends into the first four months of the COVID-19 pandemic. Also, the survey of developers on their proposed projects was conducted in early 2021. Thus, their views of the future, beyond June 30, 2020, as presented in this report can be said to have accounted for the social and economic disruptions that have occurred during the pandemic. It appears that the COVID-19 pandemic has not significantly changed the future plans of major developers.

A. HOUSING UNITS

There was a slight increase in the number of housing units identified (built or planned) since 2019. In the FY 2019 Annual Report, 189 projects were identified, involving 96,190 housing units across Oahu. In comparison, this report identifies 200 projects with a total of 101,187 housing units – an increase of 4,997 housing units.

B. HOUSING COST BURDEN

The impact of housing costs on the lives and well-being of households in the City and County of Honolulu was measured by computing the cost burden borne by households in different income levels. The average cost burden of households estimated for each income level, and their respective margins of error, are shown over two time periods. It can be seen that upper income households fared best, paying less than a quarter of their income for housing. Their cost burden in fact improved over time, dropping two percentage points from 24 percent to 22 percent, which is statistically significant. Moderate income households also fared well, paying well within their margin of error, about 33 percent of their income for housing. This cost burden did not change significantly over time, declining by one percentage point. Cost burden is most onerous for low income households, i.e., those with income at or below 80 percent of Honolulu's median. These households pay on average 50 percent of their income for housing, which is considered a severe cost burden. This cost burden also did not change significantly over time, increasing by one percentage point over the past decade.

| INCOME LEVEL | 2006-20 | 010 | 2015-2019 | | | |
|-------------------------------------|------------------------|--------------------|------------------------|--------------------|--|--|
| (% of Oahu Median Income) | AVERAGE COST BURDEN | MARGIN OF ERROR | AVERAGE COST BURDEN | MARGIN OF ERROR | | |
| Low (80% or below) | 49% | ±0.95% | 50% | ±0.77% | | |
| Moderate (greater than 80% to 120%) | 34% | ±0.73% | 33% | ±0.59% | | |
| Upper (greater than 120%) | 24% | ±0.34% | 22% | ±0.27% | | |

SOURCE: American Community Survey 5-Year Public Use Microdata Sample, 2006-2010 and 2015-2019

C. LONG AND SHORT TERM ASSESSMENTS

Long-term housing capacity continues to be in excess of demand by the year 2050. This report shows a decrease in excess capacity compared to last year (4,000 units compared to 7,300 units). It should be noted, that previous reports computed a value for unknown projects, or "total market" production. For this FY 2020 Annual Report, the availability of increased information for projects by small developers made it unnecessary to increase the known project data to reflect the total market.

| EXCESS CAPACITY (BY YEAR 2050) | | | | | | | | |
|---------------------------------------|-------|--|--|--|--|--|--|--|
| As of FY 2019 | 7,300 | | | | | | | |
| As of FY 2020 | 4,000 | | | | | | | |

However, a shortage still exists in the short-term for affordable housing units. The housing shortage in 2020 is slightly larger than in FY 2019 due to delays that various projects have experienced over the past year. Both reports show that the shortage by 2027 is in primarily affordable units, as opposed to market-rate units. As of FY 2020, a shortage of 11,300 affordable housing units is anticipated by 2027, of which 62 percent are units for households earning 80 percent or below of the Area Medium Income (AMI).

| | | HOUSING S | HORTAGE | |
|-----------------------------|---------|-----------|---------|---------|
| CHARACTERISTIC | As of F | Y 2019 | As of F | Y 2020 |
| | 2019 | By 2027 | 2020 | By 2027 |
| Total | 9,750 | 10,630 | 10,980 | 13,600 |
| Structure Type | | | | |
| Single-Family | 6,250 | 4,500 | 5,220 | 7,480 |
| Multi-Family | 3,500 | 6,120 | 5,760 | 6,130 |
| Tenure | | | | |
| Own | 5,690 | 6,260 | 5,640 | 9,020 |
| Rent | 4,060 | 4,360 | 5,340 | 4,590 |
| Affordability | | | | |
| 80% AMI or Below | 5,480 | 5,850 | 7,760 | 7,010 |
| 80% - 120% AMI | 1,940 | 3,080 | 1,710 | 4,290 |
| Subtotal: 120% AMI or Below | 7,420 | 8,930 | 9,470 | 11,300 |
| | | | | |
| 120% - 140% AMI | 1,700 | 2,810 | 670 | 2,220 |
| Market-Rate (over 140% AMI) | 640 | -1,110 | 840 | 90 |

This conclusion should be viewed more as the logical consequence of the supply and demand assumptions made in this report. To the extent that these assumptions are wrong, the magnitude of the estimated shortage will be different. The reality is that a housing shortage is certain to exist in some form on Oahu because of structural reasons such as limited land, geographic isolation, global demand, and income inequality.

INTRODUCTION

This Annual Report on the Status of Land Use on Oahu reviews land use in the context of the planning system set in place by State law and the Revised Charter of the City and County of Honolulu (Charter). The planning system begins with the classification of all lands into use districts to reflect the broad interest of the State. The counties direct their planning efforts at lands in the State Urban District (and since 1986, also at lands under 15 acres in other districts). To guide planning on Oahu, the Charter mandates the preparation of a General Plan (GP) and a set of regional plans to implement the objectives and policies of the GP. This report is required by Section 6-1503(d) of the Charter.

The GP was adopted in 1977 and has undergone a number of revisions. Eight regional plans have been adopted, the first in 1997, and revisions have either been adopted or are underway. These regional plans are called Development Plans (DPs) for the two areas where growth is encouraged and Sustainable Communities Plans (SCPs) for the remaining six areas. To avoid unnecessary verbiage, all eight regional plans are referred to in this report generically as DPs - the term used in the Charter.

The goal of this report is to provide meaningful measures of progress on how each DP is moving toward its envisioned future. The emphasis is on the physical development of the island in each of the eight regions, referred to as Development Plan Areas (DPAs). As such, this report provides data on population trends, housing construction activities, land use approvals, and other aspects of land use that are mandated by the Charter. Specific tables include: (1) the existing and projected population, visitor units, housing units, and jobs by DPA; (2) the progress being made on known housing developments; and (3) revisions to the DPs and selected land use approvals.

This information is intended to help the City Council, other elected officials, government agencies, the development community, and interested citizens understand how growth is occurring and how the development objectives of the City and County of Honolulu are being met. It also helps infrastructure agencies with their long-range planning.

This report updates the FY 2019 Annual Report (published in December 2019). It updates data to FY 2020, which ended on June 30, 2020. All data up to that date is regarded as actual events, and all remaining data as estimates. In addition, all references to "year" are intended to mean fiscal year, unless otherwise indicated as calendar year, which ends on December 31.

The report is organized into three chapters as follows:

Chapter I: Land Use and Population

This chapter provides geographic summaries of land use and population characteristics as follows:

- 1. The amount of land on Oahu in each State Land Use District and how they changed over time;
- 2. Demographic and household characteristics tabulated by DP subarea and by neighborhood area based on the American Community Survey for the period 2015-2019;
- 3. The distribution by DPA of the existing population on Oahu for each decade from 1980 through 2010; and
- 4. Growth projections by DPA of resident population for the years 2020, 2025, and 2040. The City's population distribution guideline, stated in the GP for the year 2025, is also shown for comparison with actual and projected future conditions.

Chapter II: Housing Supply and Demand

This chapter examines the supply and demand aspects of housing. The long-range demand projection is derived and explained. Supply projections are determined from known projects based on a survey of developers, as supplemented by public announcements, permit applications, and adopted unilateral agreements. Affordable housing is separately discussed. An assessment of how housing supply compares with housing demand in each DPA on Oahu is presented.

Chapter III: Land Use Planning and Approvals

This chapter reports on the following:

- 1. The status of reviews and revisions to the City's eight DPs; and
- 2. Specific changes to entitlements such as rezoning and State Land Use District boundary amendments.

CHAPTER I: LAND USE AND POPULATION

This Chapter examines land use from a broad perspective. Hawaii's overall land use management system begins with the process established by the State Land Use Law in 1961 (Chapter 205, Hawaii Revised Statutes). All lands are classified into one of four districts. Amendments to the boundaries of these districts are made from time to time to reflect the changing policy needs of the State. The City and County of Honolulu begins its land use stewardship by establishing growth policies in the GP in terms of the geographic distribution of the future population. DPs are then prepared, as mandated by the City Charter, for individual planning regions to implement these growth policies. Based on the policies promulgated in these plans, the Department of Planning and Permitting (DPP) generates geographically detailed projections or forecasts of the future population. These population forecasts are used to measure how well the DPs implement the growth policies of the GP.

These population forecasts also serve as the common basis for the planning of all infrastructure on Oahu, including roads, sewer and water, to ensure that they are mutually consistent and conform to the overall growth objectives of the City and State.

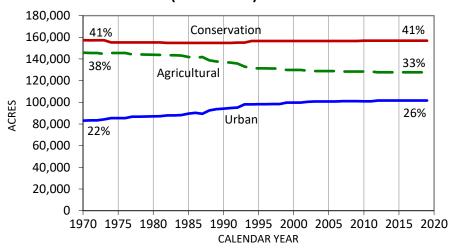
A. STATE LAND USE

The State Land Use Commission classifies all lands in Hawaii into four districts. On Oahu only three districts apply: Urban, Agricultural, and Conservation. **Figure I-1** shows the amount of land on Oahu in each of these districts from 1970 to 2019. Also shown for 1970 and 2019 are the percentages these acreages represent of the island's total land area. In 1970, 22 percent of land on Oahu was classified as Urban; by 2019, the share of lands in the Urban district has increased steadily to 26 percent. Agricultural lands declined correspondingly, from 38 percent to 33 percent. Conservation lands remained steady at 41 percent. As of this writing, data is not available for 2020.

These shifts result from boundary amendments that occur from time to time. **TABLE I-1** tabulates the cumulative changes from 1970 for each district. In the past 40-plus years, the Urban district gained over 18,500 acres, basically at the expense of a loss of over 18,100 acres of Agricultural lands. Conservation lands stayed basically the same.

This expansion of urban land is a reflection of a population that increased by more than half in the same 40-year period.

FIGURE I-1: STATE LAND USE DISTRICT ACREAGE (1970 - 2019)



% = % of Oahu land area total

TABLE I-1: STATE LAND USE DISTRICTS CUMULATIVE CHANGE FROM 1970 (IN ACRES)

| Calendar Year | Urban | Agricultural | Conservation |
|------------------|--------|--------------|--------------|
| 1975 | 2,293 | -295 | -1,999 |
| 1980 | 3,962 | -1,949 | -2,013 |
| 1985 | 6,408 | -3,986 | -2,422 |
| 1990 | 11,111 | -8,693 | -2,418 |
| 1995 | 15,125 | -14,479 | -646 |
| 2000 | 16,597 | -15,951 | -646 |
| 2005 | 17,641 | -16,996 | -645 |
| 2006 | 17,675 | -17,025 | -650 |
| 2007 | 18,020 | -17,370 | -650 |
| 2008 | 18,020 | -17,370 | -650 |
| 2009 | 18,020 | -17,370 | -650 |
| 2010 | 17,805 | -17,370 | -435 |
| 2011 | 17,805 | -17,370 | -435 |
| 2012 | 18,572 | -18,137 | -435 |
| 2013 | 18,572 | -18,137 | -435 |
| 2014 | 18,572 | -18,137 | -435 |
| 2015 | 18,572 | -18,137 | -435 |
| 2016 | 18,572 | -18,137 | -435 |
| 2017 | 18,572 | -18,137 | -435 |
| 2018 | 18,572 | -18,137 | -435 |
| 2019 | 18,572 | -18,137 | -435 |

SOURCE: State Land Use Commission As of this writing, data is not available for 2020.

B. CURRENT POPULATION AND HOUSEHOLD ESTIMATES

The United States (U.S.) Census is conducted once every ten years to provide a complete count of the entire population. As of this writing, data from the 2020 Census is not yet available. To provide more current data and greater details, the American Community Survey (ACS) is conducted once a year on a sample of the population.

Because the ACS estimates are based on a sample of the population, uncertainty is inherent in the data. Margins of error (MOE) are provided for each ACS estimate. An MOE is a measure of the possible variation in the estimate around the estimated value. In other words, MOEs are an indicator of the reliability of an estimate – an upper-bound and a lower-bound of a range provided by the Census. The estimate is the midpoint of the range, or confidence interval. A confidence level of 90 percent is the Census Bureau standard.

Summaries of selected ACS estimates are located in **APPENDIX A.** The summaries cover each of the eight DP areas, sub-areas within the DP areas, and the neighborhood areas for the period 2015-2019. The tables by DPA and DP subarea contain summaries as follows:

- Table A-1: Population, housing units, households, and median income;
- Table A-2: Housing units, tenure, and vacancy rates;
- Table A-3: Population by age and sex; and
- TABLE A-4: Race based on those who selected one race only.

The tables by neighborhood area contain summaries as follows:

- Table A-5: Population, housing units, households, and median income;
- Table A-6: Housing units, tenure, and vacancy rates;
- Table A-7: Population by age and sex; and
- Table A-8: Race based on those who selected one race only.

C. POPULATION TRENDS AND GENERAL PLAN POLICY

Population distribution is a specific concern of the GP. The GP policy for population distribution is set forth in Population Objective C, which contains four policies for the attainment of a population distribution that "will allow the people of Oahu to live and work in harmony."

The first three policies lay out the directed growth policy of the City and County of Honolulu. This fundamental policy, which has remained essentially intact since the GP was first adopted in 1977, aims to: (1) promote the full development of the Primary Urban Center (PUC); (2) encourage growth in the secondary urban center at Kapolei and in the urban fringe areas in Ewa and Central Oahu to meet housing needs not available in the PUC; and (3) discourage significant growth in the remaining urban fringe and rural areas of Oahu. The fourth policy of Population Objective C is a table of percentages depicting the population distribution on Oahu among the eight DPAs for the year 2025. These percentages are provided to guide the implementation of the directed growth policy. They are intended to serve as "markers" to measure how well the directed growth policy is being achieved in the City's plans.

In March 2012, the State Department of Business, Economic Development, and Tourism (DBEDT) released its latest series of population and economic projections for the counties in 5-year increments to the year 2040. Based on this projection series, the DPP projected the likely population distribution among the eight DPAs, taking into account: (1) the most recent GP population policy, (2) the potential for housing in accordance with the land use policies given in each area's DP or SCP; (3) the progress being made on known developments, and (4) realistic expectations of Oahu's future housing market and economy.

The population projections for the years 2020, 2025, and 2040 are shown in **Table I-2**, along with the actual population counts from the 1980, 1990, 2000, and 2010 U.S. Census. The population numbers are given in the bottom portion while the percentage breakdown by DPA is given on top. The Policy 4 population percentages by DPA for the year 2025 are also shown.

The results shown in **Table I-2** are presented graphically in **Figure I-2**. Each group of bars shows the changing population shares of a DPA in 5-year intervals from 2000 to 2040. Superimposed on the graph are the GP markers, which are shown as a black line over the bar for the year 2025. The graph shows clearly that all the planning areas are trending in the direction envisioned by the GP, except for Waianae, whose population share is expected to remain markedly above its marker well into the distant future. The graph also shows that the PUC population share is expected to decline faster than the GP vision, while Ewa's share is expected to increase faster. The other areas are essentially "on target" with respect to approaching the markers laid out by the GP.

Projections of visitor units, housing units, and jobs corresponding to the population projections are shown in **Table I-3**. Visitor units are defined as any housing units intended for visitor accommodation. They include hotels, condo hotels, bed and breakfasts, and timeshares.

TABLE I-2: POPULATION DISTRIBUTIONS

| DEVELOPMENT PLAN | | PERCENT (| OF ACTUAL | | PERCE POP | GENERAL PLAN | | |
|----------------------|---------|-----------|-----------|---------|--------------|-----------------|-----------|-------------------------------------|
| AREA | 1980 | 1990 | 2000 | 2010 | 2020 | 2025 | 2040 | PERCENTAGE FOR 2025 ¹ |
| Primary Urban Center | 54.7% | 51.7% | 47.9% | 45.6% | 44.3% | 43.7% | 43.0% | 46.0% |
| Ewa | 4.7% | 5.1% | 7.8% | 10.6% | 13.0% | 14.2% | 15.9% | 13.0% |
| Central Oahu | 13.3% | 15.6% | 16.9% | 17.7% | 17.4% | 17.5% | 17.7% | 17.0% |
| East Honolulu | 5.7% | 5.5% | 5.3% | 5.2% | 5.1% | 4.9% | 4.6% | 5.3% |
| Koolau Poko | 14.3% | 14.1% | 13.5% | 12.1% | 11.5% | 11.1% | 10.4% | 11.6% |
| Koolau Loa | 1.4% | 1.7% | 1.7% | 1.8% | 1.7% | 1.7% | 1.7% | 1.4% |
| North Shore | 1.7% | 1.9% | 2.1% | 1.9% | 1.9% | 1.8% | 1.8% | 1.7% |
| Waianae | 4.1% | 4.5% | 4.8% | 5.1% | 5.0% | 5.0% | 4.9% | 4.0% |
| TOTAL | 100% | 100% | 100% | 100% | 100% | 100% | 100% | 100% |
| | , | ACTUAL PC | PULATION | I | PROJE | | | |
| Primary Urban Center | 417,240 | 432,023 | 419,333 | 435,118 | 444,800 | 449,900 | 467,100 | |
| Ewa | 35,523 | 42,931 | 68,696 | 101,397 | 130,700 | 146,100 | 172,700 | |
| Central Oahu | 101,685 | 130,526 | 148,208 | 168,643 | 174,400 | 180,000 | 192,400 | |
| East Honolulu | 43,213 | 45,654 | 46,735 | 49,914 | 51,500 | 50,600 | 50,000 | |
| Koolau Poko | 109,373 | 117,694 | 117,999 | 115,164 | 115,900 | 114,600 | 113,300 | |
| Koolau Loa | 10,983 | 14,263 | 14,546 | 16,732 | 17,400 | 17,700 | 18,100 | |
| North Shore | 13,061 | 15,729 | 18,380 | 17,720 | 18,600 | 18,900 | 19,600 | |
| Waianae | 31,487 | 37,411 | 42,259 | 48,519 | 50,500 | | | |
| TOTAL | 762,565 | 836,231 | 876,156 | 953,207 | 1,003,700 | 1,029,400 | 1,086,700 | |

NOTE: Parts may not sum to totals because of rounding. SOURCE: U.S. Census; Department of Planning and Permitting

¹ General Plan (<u>www.honoluludpp.org/Planning/GeneralPlan.aspx</u>) Population Objective C, Policy 4

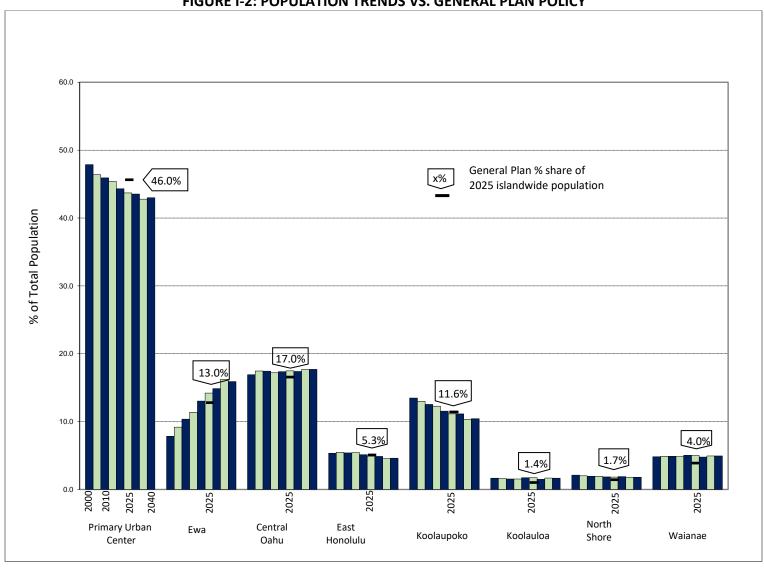


FIGURE 1-2: POPULATION TRENDS VS. GENERAL PLAN POLICY

NOTE: Column shadings alternate to improve visibility.

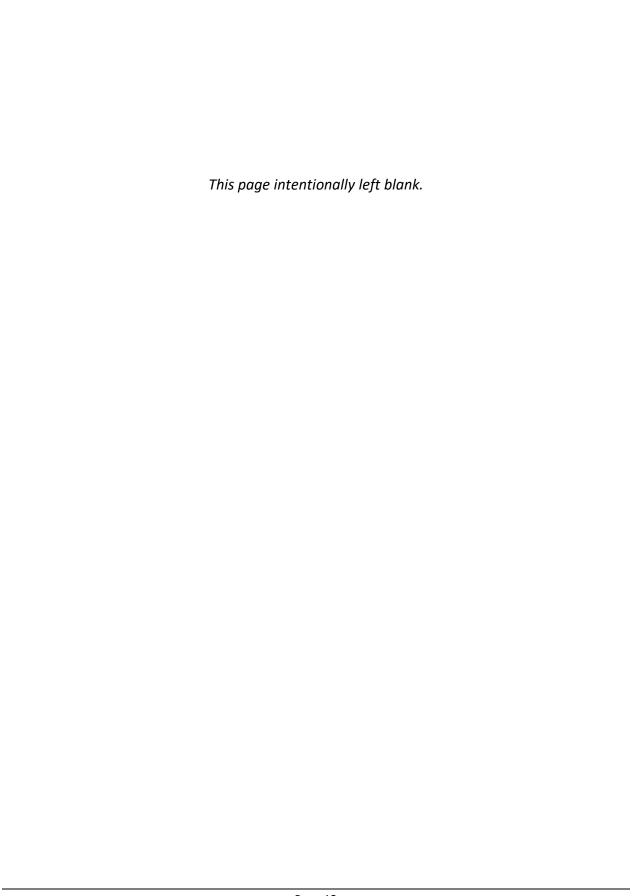
TABLE I-3: GROWTH PROJECTIONS BY DP AREA

| DEVELOPMENT | RESIDENT POPULATION | | | | | | | | | VISITOR UNITS | | | | | | |
|--------------------|---------------------|-----------|-----------|-----------|------|------|------|------|--------|---------------|--------|--------|-------|------|------|------|
| PLAN AREA | | Nu | mber | | | Sh | are | | | Nun | nber | | Share | | | |
| FLAN ANLA | 2010 | 2020 | 2025 | 2040 | 2010 | 2020 | 2025 | 2040 | 2010 | 2020 | 2025 | 2040 | 2010 | 2020 | 2025 | 2040 |
| Primary Urban | | | | | | | | | | | | | | | | |
| Center | 435,118 | 444,795 | 449,881 | 467,074 | 46% | 44% | 44% | 43% | 30,961 | 26,457 | 27,364 | 30,117 | 92% | 76% | 76% | 76% |
| Ewa | 101,397 | 130,702 | 146,096 | 172,679 | 11% | 13% | 14% | 16% | 1,154 | 6,323 | 6,541 | 7,198 | 3% | 18% | 18% | 18% |
| Central Oahu | 168,643 | 174,351 | 179,984 | 192,369 | 18% | 17% | 17% | 18% | 212 | 177 | 183 | 202 | 1% | 1% | 1% | 1% |
| East Honolulu | 49,914 | 51,514 | 50,627 | 49,985 | 5% | 5% | 5% | 5% | 370 | 310 | 320 | 352 | 1% | 1% | 1% | 1% |
| Koolau Poko | 115,164 | 115,868 | 114,626 | 113,258 | 12% | 12% | 11% | 10% | 68 | 58 | 60 | 71 | 0% | 0% | 0% | 0% |
| Koolau Loa | 16,732 | 17,427 | 17,704 | 18,104 | 2% | 2% | 2% | 2% | 586 | 1,230 | 1,272 | 1,218 | 2% | 4% | 4% | 3% |
| North Shore | 17,720 | 18,570 | 18,906 | 19,641 | 2% | 2% | 2% | 2% | 28 | 23 | 25 | 27 | 0% | 0% | 0% | 0% |
| Waianae | 48,519 | 50,480 | 51,590 | 53,589 | 5% | 5% | 5% | 5% | 217 | 181 | 187 | 206 | 1% | 1% | 1% | 1% |
| OAHU TOTAL | 953,207 | 1,003,700 | 1,029,400 | 1,086,700 | 100% | 100% | 100% | 100% | 33,596 | 34,800 | 36,000 | 39,400 | 100% | 100% | 100% | 100% |
| Annual Growth Rate | | 0.3% | 0.3% | 0.5% | | | | | | 0.2% | 0.3% | 0.9% | | | | |

| DEVELOPMENT | HOUSING UNITS | | | | | | | TOTAL JOBS | | | | | | | | |
|--------------------|---------------|---------|---------|---------|------|------|------|------------|---------|---------|---------|---------|-------|------|------|------|
| PLAN AREA | | Nur | nber | | | Sh | are | | | Nun | nber | | Share | | | |
| PLAN ANLA | 2010 | 2020 | 2025 | 2040 | 2010 | 2020 | 2025 | 2040 | 2010 | 2020 | 2025 | 2040 | 2010 | 2020 | 2025 | 2040 |
| Primary Urban | | | | | | | | | | | | | | | | |
| Center | 174,569 | 184,343 | 189,377 | 204,112 | 52% | 51% | 50% | 49% | 437,011 | 458,299 | 473,329 | 493,054 | 73% | 71% | 71% | 68% |
| Ewa | 30,726 | 40,899 | 46,425 | 57,505 | 9% | 11% | 12% | 14% | 28,294 | 44,567 | 46,028 | 73,607 | 5% | 7% | 7% | 10% |
| Central Oahu | 50,998 | 54,482 | 57,168 | 63,679 | 15% | 15% | 15% | 15% | 56,174 | 64,965 | 67,095 | 78,524 | 9% | 10% | 10% | 11% |
| East Honolulu | 18,774 | 19,991 | 19,945 | 20,283 | 6% | 5% | 5% | 5% | 10,252 | 10,357 | 10,696 | 10,406 | 2% | 2% | 2% | 1% |
| Koolau Poko | 36,894 | 38,328 | 38,477 | 39,154 | 11% | 11% | 10% | 9% | 46,181 | 47,271 | 48,822 | 47,578 | 8% | 7% | 7% | 7% |
| Koolau Loa | 4,884 | 5,262 | 5,432 | 5,756 | 1% | 1% | 1% | 1% | 7,316 | 8,287 | 8,558 | 9,144 | 1% | 1% | 1% | 1% |
| North Shore | 6,678 | 7,228 | 7,478 | 8,011 | 2% | 2% | 2% | 2% | 5,888 | 6,055 | 6,254 | 6,059 | 1% | 1% | 1% | 1% |
| Waianae | 13,376 | 14,363 | 14,906 | 16,136 | 4% | 4% | 4% | 4% | 9,098 | 9,364 | 9,671 | 9,382 | 2% | 1% | 1% | 1% |
| OAHU TOTAL | 336,899 | 364,900 | 379,200 | 414,600 | 100% | 100% | 100% | 100% | 600,214 | 649,200 | 670,500 | 727,800 | 100% | 100% | 100% | 100% |
| Annual Growth Rate | | 0.5% | 0.4% | 0.9% | | • | • | | • | 0.5% | 0.3% | 0.8% | | • | | |

NOTE: All projected "Oahu Total" counts are rounded to the nearest 100. Percentage shares by DP area may not sum to 100% due to rounding.

Areas with negative increases should be interpreted as stable communities with little or no growth expected. The negative population is caused by declines in household size that negated any population increases from housing unit gains.



CHAPTER II: HOUSING SUPPLY AND DEMAND

This chapter examines land use from the perspective of housing, which takes up more than 75 percent of the lands zoned for urban uses on Oahu. Both the supply and demand aspects of housing are discussed. Demand analysis seeks to determine the number of housing units required to house the projected population described in Chapter I. The resultant long-range housing projection to the year 2040 is described. Supply analysis is concerned with determining how this projected need can be met. This report takes a bottom-up approach to supply by focusing on the projects and units being built or likely to be built based on current market knowledge, as opposed to a top-down approach that calculates the theoretical potential supply based on the characteristics of the land and the rules and constraints of the applicable regulations. The resultant housing production data details the location, characteristics and timeline of all housing units identified to date. Because of its special importance, affordable housing data is separately presented. This chapter concludes with an assessment of how the projected demand compares with the foreseeable supply, and what this comparison says about the housing policies in the underlying land use plans.

It is important to first point out that in this report supply and demand are net quantities. That is, the demand for housing in a particular year represents only the new demand that arise because of the new population in that year. Demand attributable to the relocation of the existing population is not reflected. In other words, this report is not concerned with gross market activities and fluctuations. Similarly, the housing supply in a particular year represents the new units constructed after accounting for the units demolished or relocated. In other words, the units tabulated for the projects in this report are not necessarily the total number of units associated with the projects.

Another point that requires clarification is that the term "housing unit" refers only to units intended for use by local residents, as opposed to visitors. This definition was observed in the historical data. For example, housing units in apartment (or condominium) buildings that operate as hotels are treated by the Census as commercial units, and so are excluded from the housing count. This definition was also used in the identification of known housing projects, so that condominiums in areas that allow short-term rentals (STRs) are not counted as housing units. However, STRs that are not permitted and do not have Nonconforming Use Certificates (NUCs) are counted as housing units. It is possible, however, that known projects identified as housing units will in fact be used as second homes or be subsequently placed in a hotel pool, thereby rendering the housing units unavailable to the resident population. The DBEDT report entitled "Residential Home Sales in Hawaii: Trends and Characteristics"² revealed that during the period from 2008 to 2015, 11.6 percent of the home sales on Oahu were purchased by mainlanders and that 3.6 percent were purchased by foreigners. Thus, up to 15 percent of the housing units identified may not be available since units purchased by non-residents are more likely to be used as second homes or as STRs. To the extent that a portion of these

² Residential Home Sales in Hawaii, Trends and Characteristics: 2008-2015, DBEDT, May 2016, (http://files.hawaii.gov/dbedt/economic/data_reports/homesale/Residential_Home_Sales_in_Hawaii_May2016.pdf)

non-resident-owned units will in fact be available as rentals, the findings and conclusions of this report pertaining to the housing supply will need to be adjusted accordingly.

A. HISTORICAL EXPERIENCE

Historical data, from 1960 to the present, shows a direct relationship between housing and population growth. **Figure II-1** shows that the rate of growth of housing varies in a way that is very similar to the rate of growth of population. There are two observations of note. First, housing growth (based on number of units built) follows population growth by about two years. This is expected because it takes time for the building industry to recognize and respond to the need of the new population.

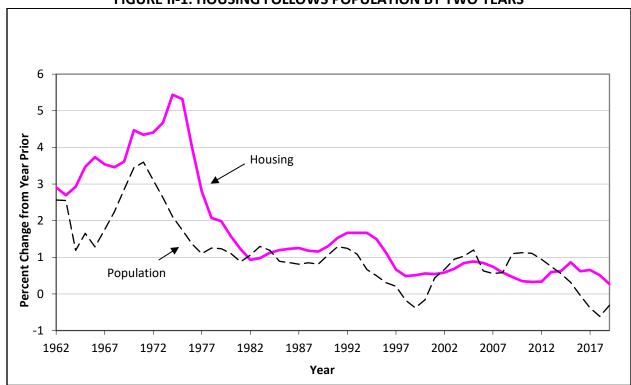


FIGURE II-1: HOUSING FOLLOWS POPULATION BY TWO YEARS

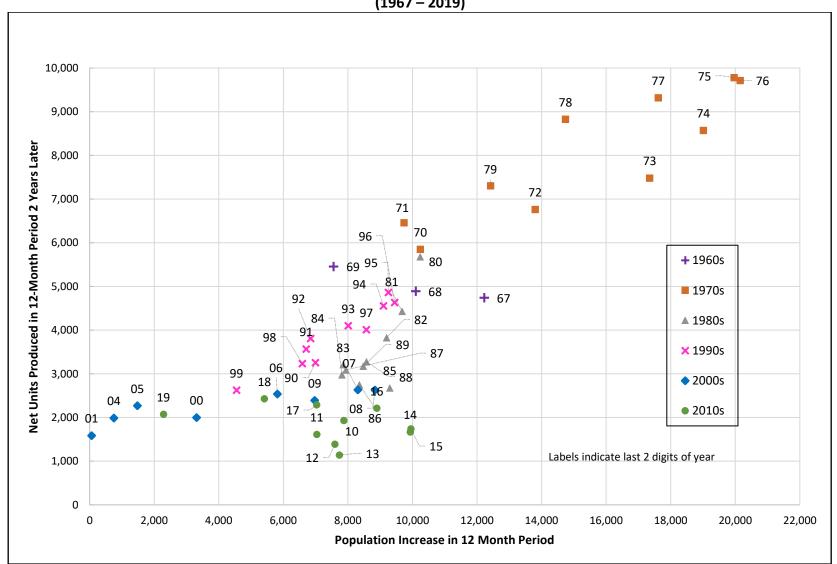
Second, housing growth rates tend to exceed population growth rates in a normal housing market. This is a reflection of the overall trend toward smaller household size. In a prolonged period of market difficulties, however, housing growth rates may trail population growth rates. This was in fact the case following the financial meltdown of 2007. In the long-run, however, these fluctuations are expected to even out, maintaining the relationship observed.

This relationship is better depicted by plotting the change in population against the resultant change in housing on a year-over-year basis. The result is shown in **Figure II-2**, where each data point represents the experience of a single year. The plot shows how housing production responds to changes in population over the course of more than five decades. Of interest is the rate of change between housing and population, as indicated by the slope implied by the data points. Two observations are noteworthy. First, data points belonging to a particular time

period tend to cluster near each other. Second, different time periods exhibit slightly different slopes. This difference can be attributed to the economic conditions of the time. For example, in the 60s and 70s, population increased in excess of 10,000 people per year, due in large measure to the euphoria of Statehood and the arrival of the jumbo jet. Housing increased correspondingly, as indicated by the positive slope of the trend line through the points representing the 70s. In the 80s and 90s, annual population growth fell to the 7,000-10,000 range, due in part to the airline strike in 1985, the Gulf War, and Hurricane Iniki. In response to the population reduction, housing production also declined, but not as rapidly as population, resulting in a slope that is steeper than that of the 70s. The post-2000 decade is characterized by slow population growth and economic malaise, punctuated by the financial meltdown that began in 2007. The housing response was essentially flat, with a nominally positive slope. The Great Recession that ensued in 2007, created a distressed market where housing production declined while population increased, resulting in a housing response rate that was negative.

While it is instructive to note the variations in the way housing responds to population, it is also important to point out that the data across the entire timeframe of more than 50 years also cast a trend line that is relatively linear. Regression analysis reveals a relationship that is statistically significant, tying the population increase over a 12-month period to the net housing units produced (construction less demolition) in the 12-month period two years later. The relationship can be described as consisting of a constant gain of 650 units and an additional 42 units for every 100 people added to the population base. This can be interpreted as the building industry anticipating a population increase of about 1,500 people a year, proceeding with building the units needed, then adjusting their plans to build more units as more population becomes evident. It should be pointed out that developers do not count population directly, but instead rely on price increases to gauge the degree of population growth.

FIGURE II-2: HOUSING PRODUCTION AND POPULATION GROWTH (1967 – 2019)



B. DEMAND PROJECTION

Long-range planning on Oahu begins with the total population projected by the State DBEDT for each county. In order to plan for the housing needs of the projected population, it is necessary to develop a long-range housing projection.

The relationships gleaned from the historical data provided the quantitative basis for translating population into housing units. To avoid having to assume a specific market environment for the future, the statistical relationship based on the entire historical experience was used rather than any specific period as the basis for the projection.

The result is shown in **Figure II-3**, where the historical increases per year are shown together with the projected increases to the year 2040. Note that since Oahu's population over the next 30 years is not expected to exceed 5,000 people per year, this means the average housing increase is about 2,700 units per year. **Table II-1** summarizes the increase in housing units every 5 years from 2010 to 2040. The total housing stock for the year 2040 is estimated to be 414,600 units, for a population of 1,086,700. This represents a net increase of 77,700 new units between 2010 and 2040.

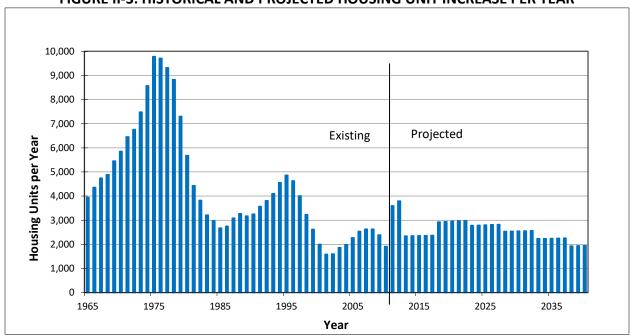


FIGURE II-3: HISTORICAL AND PROJECTED HOUSING UNIT INCREASE PER YEAR

TABLE II-1: UNITS NEEDED TO HOUSE PROJECTED POPULATION (2010 – 2040)

| (==== ====) | | | | | | | | | | |
|-------------|------------|------------------|------------------|--|--|--|--|--|--|--|
| YEAR | POPULATION | HOUSING UNITS | NET NEW UNITS | | | | | | | |
| 2010 | 955,800 | 336,900 | 0 | | | | | | | |
| 2015 | 976,200 | 351,300 | 14,400 | | | | | | | |
| 2020 | 1,003,700 | 364,900 | 28,000 | | | | | | | |
| 2025 | 1,029,400 | 379,200 | 42,300 | | | | | | | |
| 2030 | 1,052,100 | 392,500 | 55,600 | | | | | | | |
| 2035 | 1,071,200 | 404,300 | 67,400 | | | | | | | |
| 2040 | 1,086,700 | 414,600 | 77,700 | | | | | | | |

This population-driven estimate of future housing demand can be interpreted as the historical-norm projection. This is because the projection will provide the level of housing that historically has satisfied the "shelter" need of the population. It assumes that the housing market will respond to the changing population the same way it did in the past, with the same characteristics and efficiencies (or inefficiencies), and under the same regulatory limitations and constraints. In other words, the future population under the historical norm projection would be no worse off housing-wise than the current or past population. They would be better off if more housing were provided by the market and worse off if less were provided.

It should also be noted that this projection is intended to estimate housing projection in the long-run. It is not intended to measure the year-to-year fluctuations of the housing market.

C. SUPPLY PROJECTION

Of equal importance to the projection of future housing needs is the examination of current conditions and actual development events. Thus, a detailed description of the housing units currently being produced is provided in this report. The inventory of housing units is created based on known projects. Previous reports have used a factor of 12 percent to account for projects that are unknown, in order to generate a "total market" production. It was determined that with increased information available for projects by small developers, this factor was no longer necessary. Known projects have become increasingly sufficient in capturing the total market.

1. Known Projects

To develop a reasonable inventory of these housing units, this report identified all projects known to the DPP that have a credible planning basis. This includes: housing units approved by the State Land Use Commission; units implied by the development policies of the City's General Plan; units in projects referenced in the City's eight DPs; units approved by the Hawaii Community Development Authority for Kakaako and Kalaeloa; units under the jurisdiction of the Department of Hawaiian Home Lands; and units on lands with entitlement under the City's zoning code and subdivision regulations. In other words, all housing projects that are consistent with the vision, policies, plans and regulations of the City and State are included.

Known projects are identified from several sources. First, projects are known to the DPP by virtue of its planning and permitting function. Examples include projects for which applications

have been submitted for Conservation District Use Permits, zoning changes, discretionary permit approvals, land subdivision, and building permits. Projects are also known by way of information gleaned from official communication with developers and land owners, such as affordable housing agreements. Unofficial communications, as well as data gathered from trade and professional journals, and announcements in the public media are also consulted. Finally, the DPP conducts an annual survey of major developers in order to track their current plans and construction schedules.

These known projects are then vetted as to their likelihood of completion based on their planning and entitlement status. They are classified into two groups: committed and proposed. Projects that are under construction, or have a building permit or have the proper zoning in place are referred to as "committed". Developments which are exempt from county planning and zoning rules, such as projects on Hawaiian Homes lands, are also treated as "committed". Projects without zoning but are supported by adopted plans, such as the DPs or approved by agencies such as the Hawaii Community Development Authority, are referred to as proposed".

The complete set of known ongoing projects identified as of 2020 is shown in **TABLE B-1** in **APPENDIX B**. *Projects completed prior to 2020 are not included in this table*. A total of 124 known projects were identified, involving 86,078 units across Oahu. The project list includes all projects in areas with ongoing developments. All construction schedules are shown on a fiscal year basis (i.e., fiscal year ends in June, as opposed to December). Each project is described by the following attributes:

- Project name and location;
- 2. Project likelihood (committed vs. proposed);
- 3. Total housing units from project inception (after 1981);
- 4. Start year and estimated completion year;
- 5. Units completed in 2020; and
- 6. Estimated annual completion schedule from 2021 to 2024.

TABLE B-2 shows the number of affordable units in each of the ongoing known projects. In addition, the table shows the number of rental units in rental projects that charge affordable (140 percent of the area median income and below) versus market rent.

Unlike the tables in Appendix B, the following tables include all known projects, regardless of completion status. Project-specific data were aggregated by DPAs (regions) and its subareas (neighborhoods). Summary measures were then introduced to more clearly describe the data.

TABLE II-2 summarizes the status of known projects and their implied housing capacity. Of the 101,187 units associated with known projects, 38 percent have been built as of 2020, totaling 38,729 units. This leaves a capacity of 62,458 units remaining to be built on Oahu as of 2020. About half of this remaining capacity is in Ewa, totaling 29,199 units. The PUC and Central Oahu DPAs follow with 23,079 units and 8,394 units, respectively. Moreover, the remaining capacity of particular neighborhoods stands out within their region. They include: Kapolei East (which includes Hoopili) in Ewa with 12,340 units and Ala Moana/Kakaako in the PUC with 7,965 units.

Another way to describe these projects is to estimate the number of years required to exhaust the remaining capacity of the projects when completed, at the current production rate as observed. **Table II-3** shows that it will take about 33 years beyond 2020, (i.e., until the year 2053), to build out the remaining 62,458 units on Oahu. This reflects an estimated production rate of 1,904 units per year, which is based on the built experience from 2010 to 2020 and the expected production schedule of developers from 2021 to 2024. With respect to the planning regions, the PUC has 25 years remaining while Ewa has 38 years, based on their production rate of 914 and 760 units per year, respectively. Significantly lower production rates are expected for the remaining regions, with Central Oahu at 95 units per year, Waianae at 91 units per year, and the rest at less than 30 units per year. These lower production rates result in the large years-remaining figures shown for these regions.

It should be emphasized that the years-remaining figures described above are simply alternative expressions of the quantity of housing projects committed or proposed for the different areas. They reflect the areas' current development activities and market conditions. Because future production rates may increase or decrease, and because additional projects will come into play in the future, the years-remaining statements should not be interpreted as projections for the areas.

TABLE II-4 parses remaining capacity into "committed" and "proposed" to indicate the relative likelihood of project completion amongst the planning regions and neighborhoods. About 38 percent of the remaining capacity on Oahu consist of the more likely "committed" projects. The proportions for Ewa, Central Oahu, and East Honolulu are even greater, ranging from 43 percent to 75 percent "committed." The likelihood of other regions are significantly lower, with Waianae at 25 percent, Koolau Poko at 8 percent, and Koolau Loa and the North Shore almost absent of committed projects. The distribution of committed and proposed projects over time is shown in **Figure II-4**. As can be seen, committed projects generally occur in the near-term, while proposed projects occur in the more distant future.

TABLE II-2: STATUS OF KNOWN PROJECTS AND PROJECT CAPACITY

| TABLE II-2: STATUS U | _ | | INOJECI CAFA | _ |
|---|-----------------------|---------------------|------------------|-----------------------|
| | TOTAL | UNITS | | REMAINING |
| | HOUSING | BUILT | PERCENT OF | HOUSING |
| | UNIT | BY | CAPACITY | UNIT |
| DP AREA | CAPACITY | 2020 | COMPLETED | CAPACITY |
| OAHU TOTAL | 101,187 | 38,729 | 38% | 62,458 |
| PRIMARY URBAN CENTER | 32,484 | 9,405 | 29% | 23,079 |
| Kaimuki | 16 | 0 | 0% | 16 |
| McCully/Moiliili | 1,492 | 179 | 12% | 1,313 |
| Waikiki | 1,222 | 576 | 47% | 646 |
| Makiki | 253 | 253 | 100% | 0 |
| Ala Moana/Kakaako | 14,717 | 6,752 | 46% | 7,965 |
| Nuuanu/Punchbowl | 326 | 216 | 66% | 110 |
| Downtown | 1,006 | 6 | 1% | 1,000 |
| Liliha/Kapalama | 811 | 0 | 0% | 811 |
| Kalihi-Palama | 5,384 | 160 | 3% | 5,224 |
| Moanalua | 613 | 613 | 100% | 0 |
| Aliamanu | 56 | 0 | 0% | 56 |
| Airport Area | 153 | 153 | 100% | 0 |
| Aiea | 4,978 | 0 | 0% | 4,978 |
| Waiau/Pacific Palisades | 1,457 | 497 | 34% | 960 |
| EWA | 55,145 | 25,946 | 47% | 29,199 |
| Ewa Villages/Honouliuli | 1,540 | 1,255 | 81% | 285 |
| Ewa Gentry/West Loch | 8,668 | 8,130 | 94% | 538 |
| Ewa Beach/Iroquois Point | 4,850 | 3,976 | 82% | 874 |
| Kalaeloa/Campbell Industrial | 6,680 | 130 | 2% | 6,550 |
| Ko Olina/Honokai Hale | 4,450 | 1,164 | 26% | 3,286 |
| City Of Kapolei | 2,610 | 1,847 | 71% | 763 |
| Kapolei Villages | 4,056 | 4,056 | 100% | 12.240 |
| Kapolei East | 14,280 | 1,940 | 14% | 12,340 |
| Makakilo/Makaiwa Hills/Kunia CENTRAL OAHU | 8,011 8,821 | 3,448 427 | 43% 5% | 4,563 8,394 |
| Village Park/Kunia | 1,887 | 37 | 2% | 1,850 |
| Waipahu | 1,422 | 40 | 3% | 1,382 |
| Waipio | 3,500 | 0 | 0% | 3,500 |
| Waiawa | 1,500 | 0 | 0% | 1,500 |
| Mililani | 96 | 48 | 50% | 48 |
| Mililani Mauka/Launani | 373 | 298 | 80% | 75 |
| Wahiawa/Whitmore | 43 | 4 | 9% | 39 |
| EAST HONOLULU | 1,138 | 1,081 | 95% | 57 |
| Hawaii Kai | 473 | 447 | 95% | 26 |
| Kuliouou-Kalani Iki | 665 | 634 | 95% | 31 |
| KOOLAU POKO | 654 | 332 | 51% | 322 |
| Kahaluu | 44 | 0 | 0% | 44 |
| Kaneohe | 46 | 41 | 89% | 5 |
| Kailua | 255 | 213 | 84% | 42 |
| Waimanalo | 309 | 78 | 25% | 231 |
| KOOLAU LOA | 400 | 0 | 0% | 400 |
| Laie | 400 | 0 | 0% | 400 |
| NORTH SHORE | 205 | 18 | 9% | 187 |
| Haleiwa | 181 | 0 | 0% | 181 |
| Sunset Beach/Pupukea | 24 | 18 | 75% | 6 |
| WAIANAE | 2,340 | 1,520 | 65% | 820 |
| Nanakuli | 255 | 113 | 44% | 142 |
| Maili | 1,274 | 958 | 75% | 316 |
| Waianae | 425 | 351 | 83% | 74 |
| Makaha/Kaena | 386 | 98 | 25% | 288 |

TABLE II-3: YEARS OF CAPACITY REMAINING IN KNOWN PROJECTS BEYOND 2020

| TABLE II-5. TEAT | RS OF CAPACIT | I KLIVIAIIVIIVO | I IIV KINOVVIN P | NOJECIO DE I | DIND ZUZI | <i>,</i> |
|------------------------------|---------------|-----------------|------------------|--------------|-----------|-----------|
| | REMAINING | | | | | |
| | HOUSING | UNITS | | | UNITS | |
| | UNIT | BUILT | UNITS | UNITS | PER | YEARS |
| DP AREA | CAPACITY | (2010-2020) | | (2010-2024) | YEAR | REMAINING |
| | | | (2021-2024) | | | |
| OAHU TOTAL | 62,458 | 19,351 | 9,215 | 28,566 | 1,904 | 33 |
| PRIMARY URBAN CENTER | 23,079 | 9,299 | 4,407 | 13,706 | 914 | 25 |
| Kaimuki | 16 | 0 | 0 | 0 | 0 | 0 |
| McCully/Moiliili | 1,313 | 179 | 317 | 496 | 33 | 40 |
| Waikiki | 646 | 470 | 434 | 904 | 60 | 11 |
| Makiki | 0 | 253 | 0 | 253 | 17 | 0 |
| Ala Moana/Kakaako | 7,965 | 6,752 | 2,718 | 9,470 | 631 | 13 |
| Nuuanu/Punchbowl | 110 | 216 | 0 | 216 | 14 | 8 |
| Downtown | 1,000 | 6 | 777 | 783 | 52 | 19 |
| Liliha/Kapalama | 811 | 0 | 0 | 0 | 0 | 0 |
| Kalihi-Palama | 5,224 | 160 | 21 | 181 | 12 | 433 |
| Moanalua | 0 | 613 | 0 | 613 | 41 | 0 |
| Aliamanu | 56 | 0 | 0 | 0 | 0 | 0 |
| Airport Area | 0 | 153 | 0 | 153 | 10 | 0 |
| Aiea | 4,978 | 0 | 140 | 140 | 9 | 533 |
| Waiau/Pacific Palisades | 960 | 497 | 0 | 497 | 33 | 29 |
| EWA | 29,199 | 8,090 | 3,306 | 11,396 | 760 | 38 |
| Ewa Villages/Honouliuli | 285 | 458 | 142 | 600 | 40 | 7 |
| Ewa Gentry/West Loch | 538 | 1,363 | 357 | 1,720 | 115 | 5 |
| Ewa Beach/Iroquois Point | 874 | 1,421 | 150 | 1,571 | 105 | 8 |
| Kalaeloa/Campbell Industrial | 6,550 | 50 | 0 | 50 | 3 | 1,965 |
| Ko Olina/Honokai Hale | 3,286 | 0 | 0 | 0 | 0 | 1,965 |
| | ì | | 143 | | 131 | 6 |
| City Of Kapolei | 763 0 | 1,827 | | 1,970 | | |
| Kapolei Villages | _ | 593 | 0 | 593 | 40 | 0 |
| Kapolei East | 12,340 | 1,927 | 2,501 | 4,428 | 295 | 42 |
| Makakilo/Makaiwa Hills/Kunia | 4,563 | 451 | 13 | 464 | 31 | 148 |
| CENTRAL OAHU | 8,394 | 427 | 997 | 1,424 | 95 | 88 |
| Village Park/Kunia | 1,850 | 37 | 0 | 37 | 2 | 750 |
| Waipahu | 1,382 | 40 | 0 | 40 | 3 | 518 |
| Waipio | 3,500 | 0 | 900 | 900 | 60 | 58 |
| Waiawa | 1,500 | 0 | 0 | 0 | 0 | 0 |
| Mililani | 48 | 48 | 0 | 48 | 3 | 15 |
| Mililani Mauka/Launani | 75 | 298 | 75 | 373 | 25 | 3 |
| Wahiawa/Whitmore | 39 | 4 | 22 | 26 | 2 | 23 |
| EAST HONOLULU | 57 | 303 | 6 | 309 | 21 | 3 |
| Hawaii Kai | 26 | 277 | 1 | 278 | 19 | 1 |
| Kuliouou-Kalani Iki | 31 | 26 | 5 | 31 | 2 | 15 |
| KOOLAU POKO | 322 | 324 | 32 | 356 | 24 | 14 |
| Kahaluu | 44 | 0 | 0 | 0 | 0 | 0 |
| Kaneohe | 5 | 33 | 5 | 38 | 3 | 2 |
| Kailua | 42 | 213 | 0 | 213 | 14 | 3 |
| Waimanalo | 231 | 78 | 27 | 105 | 7 | 33 |
| KOOLAU LOA | 400 | 0 | 0 | 0 | 0 | 0 |
| Laie | 400 | 0 | 0 | 0 | 0 | 0 |
| NORTH SHORE | 187 | 10 | 1 | 11 | 1 | 255 |
| Haleiwa | 181 | 0 | 0 | 0 | 0 | 0 |
| Sunset Beach/Pupukea | 6 | 10 | 1 | 11 | 1 | 8 |
| WAIANAE | 820 | 898 | 466 | 1,364 | 91 | 9 |
| Nanakuli | 142 | 73 | 0 | 73 | 5 | 29 |
| Maili | 316 | 418 | 302 | 720 | 48 | 7 |
| Waianae | 74 | 309 | 66 | 375 | 25 | 3 |
| Makaha/Kaena | 288 | 98 | 98 | 196 | 13 | 22 |

TABLE II-4: REMAINING CAPACITY OF KNOWN PROJECTS BEYOND 2020

| DP AREA OAHU TOTAL PRIMARY URBAN CENTER Kaimuki | REMAINING HOUSING UNIT CAPACITY 62,458 | PERCENT OF OAHU TOTAL | UNITS | | PERCENT OF |
|---|--|-----------------------------|-----------|----------|------------|
| OAHU TOTAL PRIMARY URBAN CENTER | UNIT CAPACITY | TOTAL | LINITS | | PERCENT OF |
| OAHU TOTAL PRIMARY URBAN CENTER | CAPACITY | | LIMITC | | |
| OAHU TOTAL PRIMARY URBAN CENTER | | | UNITS | UNITS | CAPACITY |
| PRIMARY URBAN CENTER | 62 /50 | UNITS | COMMITTED | PROPOSED | COMMITTED |
| | 02,430 | 100% | 23,821 | 38,637 | 38% |
| Kaimuki | 23,079 | 37% | 2,768 | 20,311 | 12% |
| | 16 | 0% | 0 | 16 | 0% |
| McCully/Moiliili | 1,313 | 2% | 40 | 1,273 | 3% |
| Waikiki | 646 | 1% | 33 | 613 | 5% |
| Makiki | 0 | 0% | 0 | 0 | 0% |
| Ala Moana/Kakaako | 7,965 | 13% | 2,390 | 5,575 | 30% |
| Nuuanu/Punchbowl | 110 | 0% | 0 | 110 | 0% |
| Downtown | 1,000 | 2% | 284 | 716 | 28% |
| Liliha/Kapalama | 811 | 1% | 0 | 811 | 0% |
| Kalihi-Palama | 5,224 | 8% | 21 | 5,203 | 0% |
| Moanalua | 0 | 0% | 0 | 0 | 0% |
| Aliamanu | 56 | 0% | 0 | 56 | 0% |
| Airport Area | 0 | 0% | 0 | 0 | 0% |
| Aiea | 4,978 | 8% | 0 | 4,978 | 0% |
| Waiau/Pacific Palisades | 960 | 2% | 0 | 960 | 0% |
| EWA | 29,199 | 47% | 17,156 | 12,043 | 59% |
| Ewa Villages/Honouliuli | 285 | 0% | 143 | 142 | 50% |
| Ewa Gentry/West Loch | 538 | 1% | 357 | 181 | 66% |
| Ewa Beach/Iroquois Point | 874 | 1% | 874 | 0 | 100% |
| Kalaeloa/Campbell Industrial | 6,550 | 10% | 0 | 6,550 | 0% |
| Ko Olina/Honokai Hale | 3,286 | 5% | 3,286 | 0 | 100% |
| City Of Kapolei | 763 | 1% | 143 | 620 | 19% |
| Kapolei Villages | 0 | 0% | 0 | 0 | 0% |
| Kapolei East | 12,340 | 20% | 12,340 | 0 | 100% |
| Makakilo/Makaiwa Hills/Kunia | 4,563 | 7% | 13 | 4,550 | 0% |
| CENTRAL OAHU | 8,394 | 13% | 3,614 | 4,780 | 43% |
| Village Park/Kunia | 1,850 | 3% | 0 | 1,850 | 0% |
| Waipahu | 1,382 | 2% | 0 | 1,382 | 0% |
| Waipio | 3,500 | 6% | 3,500 | 0 | 100% |
| Waiawa | 1,500 | 2% | 0 | 1,500 | 0% |
| Mililani | 48 | 0% | 0 | 48 | 0% |
| Mililani Mauka/Launani | 75 | 0% | 75 | 0 | 100% |
| Wahiawa/Whitmore | 39 | 0% | 39 | 0 | 100% |
| EAST HONOLULU | 57 | 0% | 43 | 14 | 75% |
| Hawaii Kai | 26 | 0% | 12 | 14 | 46% |
| Kuliouou-Kalani Iki | 31 | 0% | 31 | 0 | 100% |
| KOOLAU POKO | 322 | 1% | 26 | 296 | 8% |
| Kahaluu | 44 | 0% | 0 | 44 | 0% |
| Kaneohe | 5 | 0% | 5 | 0 | 100% |
| Kailua | 42 | 0% | 0 | 42 | 0% |
| Waimanalo | 231 | 0% | 21 | 210 | 9% |
| KOOLAU LOA | 400 | 1% | 0 | 400 | 0% |
| Laie | 400 | 1% | 0 | 400 | 0% |
| NORTH SHORE | 187 | 0% | 6 | 181 | 3% |
| Haleiwa | 181 | 0% | 0 | 181 | 0% |
| Sunset Beach/Pupukea | 6 | 0% | 6 | 0 | 100% |
| WAIANAE | 820 | 1% | 208 | 612 | 25% |
| Nanakuli | 142 | 0% | 0 | 142 | 0% |
| Maili | 316 | 1% | 52 | 264 | 16% |
| Waianae | 74 | 0% | 58 | 16 | 78% |
| Makaha/Kaena | 288 | 0% | 98 | 190 | 34% |

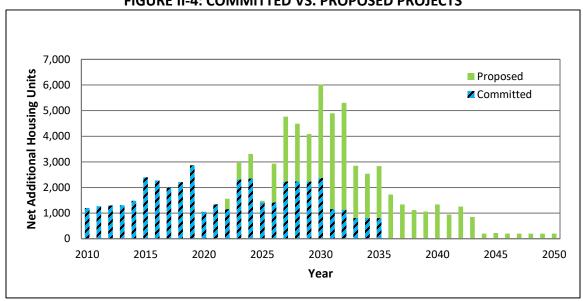


FIGURE II-4: COMMITTED VS. PROPOSED PROJECTS

2. Affordable Housing

Affordable housing has long been the stated goal of public policy in Honolulu. The GP adopted in 1977 specifically called for housing that people can afford. Late 1977 saw the first Unilateral Agreements (UA) by developers involving housing, when Waipio Gentry agreed to provide 10 percent of its housing units as affordable (i.e., at 80 percent of the median income). Act 15 increased the affordability requirement to 60 percent and became the impetus of residential development in Ewa Villages and Villages at Kapolei in the late 1980s. Hawaii Revised Statutes Chapter 359G and its successor Chapter 201H further promoted affordability, as public and quasi-public projects developed under these statutes are, by definition, affordable. Hawaiian Home Lands developments, which are exempt from county planning and zoning regulations, are also basically affordable. These affordable requirements were made under varying definitions of qualifying income, ranging from 30 percent to 140 percent of the median income of the households in the area under consideration. Under Resolution 09-241, the City Council, following the State's lead, revised the income limit for affordable housing required by UA from 120 percent to 140 percent of the area median income. In April 2018, the City Council passed Ordinance 18-10, codified as Revised Ordinances of Honolulu, Chapter 38, lowering the income limits for affordable units. The new limits for rental and for-sale housing units are 80 percent and 120 percent of the area median income, respectively.

This report monitors the state of affordable housing by providing data on: 1) the progress in building affordable and rental units and 2) the improvement (or lack thereof) in the housing cost burden borne by the affected households.

It should be pointed out that, in this report, affordable housing refers only to units intended by law or by design to be affordable, such as those defined by developers under the terms of a UA. They do not include existing units and future units offered with affordable rent set by the market without government assistance. Similarly, the rental units tabulated refer only to units

in projects built specifically for rent. They do not include rental units placed in the market by individual owners.

TABLE II-5 shows that the 101,187 units in the known project list contain a total of 40,658 affordable units (for sale or for rent), of which 19,413 are affordable rental units. Affordable units thus represent about 40 percent of the known projects. This is consistent with the cumulative effect of the various affordability requirements that have been in use over the past four decades. Rental units, in contrast, represent only 25 percent of the known project units. This confirms the fact that there have been few rental developments, particularly market rentals, in Honolulu. Rental developments have been increasing in recent years, however.

As of 2020, 16,652 of the 40,658 affordable units (41 percent) have been completed. Ewa accounted for about 62 percent of the completed total, or 10,926 units. In contrast, the PUC contributed to less than 30 percent of the total affordable units built.

During the years 2010 through 2020, 19,351 units were completed, of which 8,392 were affordable. This represents a 43 percent completion rate, which is 2 percent more than the cumulative completion rate. Ewa accounted for 38 percent of the affordable units built, but the PUC now contributed 47 percent of the total affordable units built over the 11-year period. Affordable housing units are likely to increase in the future as rail and transit-oriented development take hold.

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TABLE II-5: KNOWN AFFORDABLE AND/OR RENTAL PROJECTS

| | TABLE 11-3. KINOWIN AFFORDABLE AND/OR REINTAL PROJECTS | | | | | | | | | | | DEDCENT |
|------------------------------|--|---------------------------|--------------------------------|---------------------------|------------------------|------------------------|--------------------------------|-----------------------------|--|-------------------------------|---------------------------------|--|
| DP AREA | TOTAL UNITS | INTENDED AS RENTALS | PERCENT INTENDED RENTALS | INTENDED AS AFFORD. | AFFORD. FOR SALE | AFFORD. FOR RENT | PERCENT INTENDED AFFORD. | AFFORD. BUILT BY 2020 | PERCENT AFFORD. BUILT BY 2020 | UNITS BUILT (2010-2020) | AFFORD. BUILT (2010-2020) | PERCENT AFFORD. BUILT (2010-2020) |
| OAHU TOTAL | 101,187 | 25,320 | 25% | 40,658 | 21,245 | 19,413 | 40% | 16,652 | 41% | 19,351 | 8,392 | 43% |
| PRIMARY URBAN CENTER | 32,484 | 16,670 | 51% | 17,704 | 4,539 | 13,165 | 55% | 4,474 | 25% | 9,299 | 4,368 | 47% |
| Kaimuki | 16 | 0 | 0% | 0 | 0 | 0 | 0% | 0 | 0% | 0 | 0 | 0% |
| McCully/Moiliili | 1,492 | 1,312 | 88% | 1,019 | 108 | 911 | 68% | 54 | 5% | 179 | 54 | 30% |
| Waikiki | 1,222 | 808 | 66% | 239 | 0 | 239 | 20% | 168 | 70% | 470 | 62 | 13% |
| Makiki | 253 | 42 | 17% | 132 | 90 | 42 | 52% | 132 | 100% | 253 | 132 | 52% |
| Ala Moana/Kakaako | 14,717 | 3,136 | 21% | 5,677 | 3,140 | 2,537 | 39% | 2,979 | 52% | 6,752 | 2,979 | 44% |
| Nuuanu/Punchbowl | 326 | 192 | 59% | 0 | 0 | 0 | 0% | 0 | 0% | 216 | 0 | 0% |
| Downtown | 1,006 | 1,006 | 100% | 765 | 0 | 765 | 76% | 6 | 1% | 6 | 6 | 100% |
| Liliha/Kapalama | 811 | 800 | 99% | 811 | 11 | 800 | 100% | 0 | 0% | 0 | 0 | 0% |
| Kalihi-Palama | 5,384 | 5,185 | 96% | 4,225 | 0 | 4,225 | 78% | 160 | 4% | 160 | 160 | 100% |
| Moanalua | 613 | 613 | 100% | 491 | 0 | 491 | 80% | 491 | 100% | 613 | 491 | 80% |
| Aliamanu | 56 | 0 | 0% | 42 | 42 | 0 | 75% | 0 | 0% | 0 | 0 | 0% |
| Airport Area | 153 | 153 | 100% | 153 | 0 | 153 | 100% | 153 | 100% | 153 | 153 | 100% |
| Aiea | 4,978 | 1,966 | 39% | 2,859 | 1,148 | 1,711 | 57% | 0 | 0% | 0 | 0 | 0% |
| Waiau/Pacific Palisades | 1,457 | 1,457 | 100% | 1,291 | 0 | 1,291 | 89% | 331 | 26% | 497 | 331 | 67% |
| EWA | 55,145 | 5,736 | 10% | 17,521 | 14,033 | 3,488 | 32% | 10,926 | 62% | 8,090 | 3,066 | 38% |
| Ewa Villages/Honouliuli | 1,540 | 342 | 22% | 1,344 | 1,152 | 192 | 87% | 1,201 | 89% | 458 | 404 | 88% |
| Ewa Gentry/West Loch | 8,668 | 293 | 3% | 2,950 | 2,657 | 293 | 34% | 2,657 | 90% | 1,363 | 0 | 0% |
| Ewa Beach/Iroquois Point | 4,850 | 0 | 0% | 787 | 787 | 0 | 16% | 787 | 100% | 1,421 | 0 | 0% |
| Kalaeloa/Campbell Industrial | 6,680 | 365 | 5% | 930 | 750 | 180 | 14% | 130 | 14% | 50 | 50 | 100% |
| Ko Olina/Honokai Hale | 4,450 | 392 | 9% | 392 | 0 | 392 | 9% | 392 | 100% | 0 | 0 | 0% |
| City Of Kapolei | 2,610 | 1,416 | 54% | 1,017 | 270 | 747 | 39% | 724 | 71% | 1,827 | 724 | 40% |
| Kapolei Villages | 4,056 | 295 | 7% | 3,372 | 3,221 | 151 | 83% | 3,372 | 100% | 593 | 593 | 100% |
| Kapolei East | 14,280 | 2,128 | 15% | 5,064 | 3,736 | 1,328 | 35% | 1,308 | 26% | 1,927 | 1,295 | 67% |
| Makakilo/Makaiwa Hills/Kunia | 8,011 | 505 | 6% | 1,665 | 1,460 | 205 | 21% | 355 | 21% | 451 | 0 | 0% |
| CENTRAL OAHU | 8,821 | 2,135 | 24% | 3,706 | 1,683 | 2,023 | 42% | 263 | 7% | 427 | 263 | 62% |
| Village Park/Kunia | 1,887 | 37 | 2% | 570 | 533 | 37 | 30% | 37 | 6% | 37 | 37 | 100% |
| Waipahu | 1,422 | 1,350 | 95% | 1,310 | 0 | 1,310 | 92% | 0 | 0% | 40 | 0 | 0% |
| Waipio | 3,500 | 375 | 11% | 1,075 | 700 | 375 | 31% | 0 | 0% | 0 | 0 | 0% |
| Waiawa | 1,500 | 0 | 0% | 450 | 450 | 0 | 30% | 0 | 0% | 0 | 0 | 0% |
| Mililani | 96 | 0 | 0% | 0 | 0 | 0 | 0% | 0 | 0% | 48 | 0 | 0% |
| Mililani Mauka/Launani | 373 | 373 | 100% | 301 | 0 | 301 | 81% | 226 | 75% | 298 | 226 | 76% |
| Wahiawa/Whitmore | 43 | 0 | 0% | 0 | 0 | 0 | 0% | 0 | 0% | 4 | 0 | 0% |
| EAST HONOLULU | 1,138 | 56 | 5% | 56 | 0 | 56 | 5% | 56 | 100% | 303 | 56 | 18% |
| Hawaii Kai | 473 | 56 | 12% | 56 | 0 | 56 | 12% | 56 | 100% | 277 | 56 | 20% |
| Kuliouou-Kalani Iki | 665 | 0 | 0% | 0 | 0 | 0 | 0% | 0 | 0% | 26 | 0 | 0% |

TABLE II-5, CONTINUED

| DP AREA | TOTAL UNITS | INTENDED AS RENTALS | PERCENT INTENDED RENTALS | INTENDED AS AFFORD. | AFFORD. FOR SALE | AFFORD. FOR RENT | PERCENT INTENDED AFFORD. | AFFORD. BUILT BY 2020 | PERCENT AFFORD. BUILT BY 2020 | UNITS BUILT (2010-2020) | AFFORD. BUILT (2010-2020) | PERCENT AFFORD. BUILT (2010-2020) |
|----------------------|----------------|---------------------------|--------------------------------|---------------------------|------------------------|------------------------|--------------------------------|-----------------------------|--|-------------------------------|---------------------------------|--|
| KOOLAU POKO | 654 | 53 | 8% | 283 | 272 | 11 | 43% | 76 | 27% | 324 | 76 | 23% |
| Kahaluu | 44 | 0 | 0% | 0 | 0 | 0 | 0% | 0 | 0% | 0 | 0 | 0% |
| Kaneohe | 46 | 0 | 0% | 0 | 0 | 0 | 0% | 0 | 0% | 33 | 0 | 0% |
| Kailua | 255 | 42 | 16% | 0 | 0 | 0 | 0% | 0 | 0% | 213 | 0 | 0% |
| Waimanalo | 309 | 11 | 4% | 283 | 272 | 11 | 92% | 76 | 27% | 78 | 76 | 97% |
| KOOLAU LOA | 400 | 0 | 0% | 100 | 100 | 0 | 25% | 0 | 0% | 0 | 0 | 0% |
| Laie | 400 | 0 | 0% | 100 | 100 | 0 | 25% | 0 | 0% | 0 | 0 | 0% |
| NORTH SHORE | 205 | 156 | 76% | 168 | 12 | 156 | 82% | 0 | 0% | 10 | 0 | 0% |
| Haleiwa | 181 | 156 | 86% | 168 | 12 | 156 | 93% | 0 | 0% | 0 | 0 | 0% |
| Sunset Beach/Pupukea | 24 | 0 | 0% | 0 | 0 | 0 | 0% | 0 | 0% | 10 | 0 | 0% |
| WAIANAE | 2,340 | 514 | 22% | 1,120 | 606 | 514 | 48% | 857 | 77% | 898 | 563 | 63% |
| Nanakuli | 255 | 88 | 35% | 141 | 53 | 88 | 55% | 100 | 71% | 73 | 60 | 82% |
| Maili | 1,274 | 52 | 4% | 527 | 475 | 52 | 41% | 461 | 87% | 418 | 207 | 50% |
| Waianae | 425 | 284 | 67% | 362 | 78 | 284 | 85% | 296 | 82% | 309 | 296 | 96% |
| Makaha/Kaena | 386 | 90 | 23% | 90 | 0 | 90 | 23% | 0 | 0% | 98 | 0 | 0% |

a. Housing Cost Burden

One measure of housing affordability is the housing cost burden borne by households. Housing cost refers to all cost items associated with owning or renting a housing unit, including: mortgage payment or rent, property tax, utility cost, maintenance fees, etc. The housing cost burden of a household is defined as the ratio of housing cost to household income.

Housing cost burdens are classified into three levels of income. They are defined based on the income of the household relative to the median income of all households in Honolulu, as follows:

- 1. Low (less than or equal to 80 percent of median)
- 2. Moderate (greater than 80 percent and up to 120 percent of median)
- 3. Upper (greater than 120 percent of median)

It should be noted that if a household does not have a mortgage or pay rent, then its housing cost is not comparable to that of households that do pay mortgage or rent. Thus, in computing the cost burden of households, those with no mortgage or rent were first excluded. The result is shown in **Table II-6**, using data from the Public Use Microdata Sample files collected by the ACS conducted annually by the Census Bureau. The average cost burden of households estimated for each income level, and their respective margins of error, are shown over two time periods. The first period is the five years leading up to 2010 and serves as the baseline. The second period is the latest five years available, from 2015 to 2019. Together, they describe the cost burdens experienced by households in recent years as compared to those a decade earlier.

TABLE II-6: AVERAGE COST BURDEN OF HOUSEHOLDS BY INCOME LEVEL

| INCOME LEVEL | 2006-20 | 010 | 2015-2019 | | | | | | |
|--|------------------------|--------------------|------------------------|--------------------|--|--|--|--|--|
| (% of Oahu Median Income) | AVERAGE COST BURDEN | MARGIN OF ERROR | AVERAGE COST BURDEN | MARGIN OF ERROR | | | | | |
| Low (80% or below) | 49% | ±0.95% | 50% | ±0.77% | | | | | |
| Moderate (greater than 80% to 120%) | 34% | ±0.73% | 33% | ±0.59% | | | | | |
| Upper (greater than 120%) | 24% | ±0.34% | 22% | ±0.27% | | | | | |

The object of affordable housing, whether for sale or for rent, is to lower the cost of housing to an "affordable" level. This quantity varies geographically and differs by program, but is generally considered to be a third of household income. That is, housing is considered affordable if household pays a third, or 33 percent, of its income for housing. Using this standard, it can be seen that upper income households fared best, paying less than a quarter of their income for housing. Their cost burden in fact improved over time, dropping two percentage points from 24 percent to 22 percent, which is statistically significant. Moderate income households also fared well, paying well within their margin of error, about 33 percent of their income for housing. This cost burden did not change significantly over time, declining

by one percentage point. Cost burden is most onerous for low income households, i.e., those with income at or below 80 percent of Honolulu's median. These households pay on average 50% of their income for housing, which is considered a severe cost burden. This cost burden also did not change significantly over time, increasing by one percentage point over the past decade.

This set of outcomes suggests that past efforts at affordable housing may have benefitted moderate and upper income households, but have not had measurable impact on low income households. Future efforts will need to focus on households making at most 80 percent of Honolulu's median income in order for their severe cost burden to be alleviated. This conclusion is also evident by examining the income composition of households. **Table II-7** shows the shift in income among households over the past decade, differentiating between households that have to pay mortgage or rent and those that do not.

TABLE II-7: HOUSEHOLDS BY INCOME LEVEL

| INCOME LEVEL (% of Oahu Median | 2006- | -2010 | 2015- | NET CHANGE IN | | |
|--|------------|------------|------------|------------------|------------|--|
| Income) | HOUSEHOLDS | PERCENTAGE | HOUSEHOLDS | PERCENTAGE | HOUSEHOLDS | |
| Low (80% or below) | 70,110 | 23% | 84,455 | 27% | +14,345 | |
| Moderate (greater than 80% to 120%) | 48,772 | 16% | 46,919 | 15% | -1,853 | |
| Upper (greater than 120%) | 118,883 | 39% | 112,606 | 36% | -6,277 | |
| No Mortgage or Rent | 67,063 | 22% | 68,815 | 22% | +1,753 | |

It can be seen that over the past decade, a constant 22 percent of the households on Oahu did not have to pay mortgage or rent. For households that did pay, the share of upper income households declined by 3 percentage points, which translates to a loss of almost 6,300 units. The share of moderate income households also declined, but only by one point, or about 1,800 units. Low income households, in contrast, expanded its share from 23 percent to 27 percent in the course of a decade, resulting in a gain of over 14,300 units.

The decrease in the number of moderate and upper (up to 140 percent median) income households may have made it easier for these households to rent or purchase affordable units being offered, resulting in a smaller average cost burden and a tighter margin of error. This is shown by the results in **Table II-6**. A large and increasing share, as in the case of low income households, will require mitigating action at a scale on par with the size of the underlying household increase. Otherwise, the impact on cost burden is likely to be nil.

D. ASSESSMENT

For a long term assessment, the projected demand is compared to the foreseeable supply. A recent survey of residents' preferences for new housing units is used to assess unmet demand as a near term assessment.

1. Long Term

One way to credibly assess the state of housing production on Oahu is to first establish the validity of the demand projections. The validation process has two requirements. First, the demand projections, when applied backward in time, must reasonably replicate the housing productions in the past. Second, the demand projections, in the short-term, must reasonably account for the market-based projects in the supply projections. For validation purposes, "short-term" is generally considered to be up to ten years in the future.

FIGURE II-5 compares the replicated historical productions with the actual housing production from 1967 to 2010. It can be seen that the "projected" productions adequately captured the actual conditions in the past five decades. Specifically, the "projections" differ from the actual housing production by an average deviation of about 1,100 units in any given year.

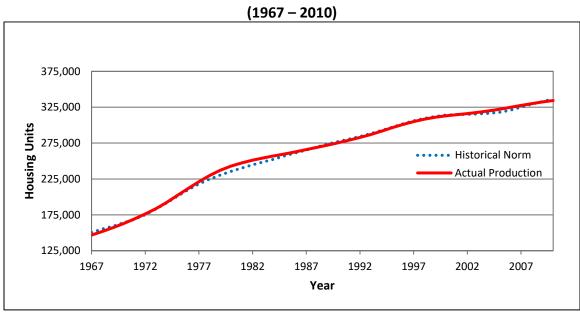


FIGURE II-5: ACTUAL HOUSING PRODUCTION VS. HISTORICAL NORM

To assess how well the projected demand compares with the foreseeable supply, particularly in the short-term, the long-range housing demand projection is shown in Figure II-6 together with the supply projections. Note that the demand projection ends at the official planning horizon of 2040, but the supply projections extend beyond to account for projects that cannot be completed by the planning horizon. The lines representing the known projects and committed projects form a band that depicts the range of variability in the certainty of these supply projections, with "committed projects" being the most certain. As expected, the band increases over time, reflecting the increasing uncertainty of the supply projections over time.

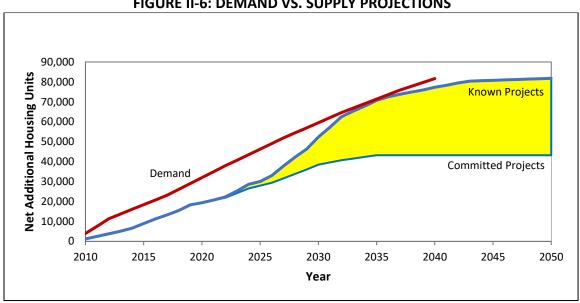


FIGURE II-6: DEMAND VS. SUPPLY PROJECTIONS

It can be seen that as a consequence of the Great Recession that followed the financial meltdown of 2007, housing production entered 2010 far short of the demand indicated by the historical-norm housing projection. The deficit is anticipated to reach a peak of about 15,630 units in 2022. The mean deviation of the demand projection is about 1,100 units.

In 2035, housing supply is anticipated to almost meet demand, and then fall short again in subsequent years. However, this is by no means an indication of market or supply deficiencies. Rather it is a reflection of the fact the supply projections are based only on currently known projects and on current knowledge about the known projects. As additional future projects emerge and as construction becomes more efficient, the supply and demand gap is expected to diminish over time.

Supply and demand is shown in greater detail in TABLE II-8. For each DPA on Oahu, demand over the period 2010-2040 is obtained from the housing projections described in Chapter I. The corresponding supply is derived from the DPA's known projects. The resultant comparison yields either a capacity excess or a deficit at the 2040 planning horizon. The capacity beyond 2040 is taken into account to give a measure of whether the totality of capacity would be adequate to meet the projected housing needs of the 2040 population.

TABLE II-8: KNOWN CAPACITY AS OF 2020 VS. PROJECTED HOUSING NEED

| DP AREA | UNITS NEEDED TO HOUSE POPULATION (2010-2040) | NEED MET BY KNOWN CAPACITY (2010-2040) | EXCESS KNOWN CAPACITY (2010-2040) | KNOWN CAPACITY BEYOND 2040 | TOTAL EXCESS KNOWN CAPACITY (2010-2050) |
|------------------------|--|---|--|-------------------------------------|---|
| HONOLULU COUNTY TOTALS | 77,800 | 77,300 | -500 | 4,500 | 4,000 |
| Primary Urban Center | 29,500 | 32,000 | 2,500 | 400 | 2,900 |
| Ewa | 26,800 | 34,900 | 8,100 | 2,400 | 10,500 |
| Central Oahu | 12,700 | 7,700 | -5,000 | 1,200 | -3,900 |
| East Honolulu | 1,500 | 400 | -1,100 | 0 | -1,100 |
| Koolau Poko | 2,300 | 600 | -1,700 | 0 | -1,700 |
| Koolau Loa | 900 | 0 | -900 | 400 | -500 |
| North Shore | 1,300 | 200 | -1,100 | 0 | -1,100 |
| Waianae | 2,800 | 1,600 | -1,200 | 100 | -1,100 |

NOTE: Parts may not sum to totals because of rounding.

It should be pointed out that areas with capacity deficit are generally of greater interest than areas with excess capacity. This is because the former suggests that the market had underestimated the underlying demand for housing in the area and that effort would have to be made to increase the capacity. Areas with excess capacity, on the other hand, indicate only that current developers had overestimated the demand. Little or no effort would be needed to reduce the capacity since the excess consists mainly of proposed projects, and they can be dropped without much consequence or left in place to be developed in the more distant future.

TABLE II-8 shows that demand by 2040 exceeds island-wide supply by 500 units. If the 4,500-unit capacity available beyond 2040 is taken into account, the total excess market capacity is 4,000 units. This means that in order to meet the projected housing needs on Oahu as a whole in 2050, no new housing projects will need to be proposed beyond those already identified as of 2020.

There are, however, regional differences. Excess capacity may exist in two of the eight DPAs. It is dominated by Ewa, whose overall excess capacity of 10,500 units may consist of 8,100 units by 2040 and 2,400 units beyond 2040. The PUC may have may have excess capacity of 2,900 units by 2050. Central Oahu may have the biggest capacity deficit at 3,900 units, followed by Koolau Poko with a deficit of 1,700. East Honolulu, the North Shore, and Waianae all have capacity deficits of 1,100. This translates to an additional 35 units a year by 2050, which is not a significant quantity. Koolau Loa may have capacity deficit of 500 units. The magnitude of this deficit is within the margin of error of the estimates used in this report, and therefore can be regarded as negligible.

2. Short Term

Another way to assess the state of housing production on Oahu is to evaluate the extent to which the housing market is producing the kind of housing needed by Oahu residents. Because of data limitations, a short-term assessment, to the year 2027, was carried out. Three sets of characteristics were used to measure how well the housing market, as represented by the known projects, responds to the housing needs of Oahu residents.

These characteristics relate to:

1. Structure: Single-Family vs. Multi-Family,

2. Tenure: Owner vs. Renter; and

3. Affordability: 80 percent AMI (or below) vs. 80 percent-to-120 percent AMI vs. 120 percent-to-140 percent AMI.

TABLE II-9 summarizes the estimated current and future housing shortages in the short term. In terms of the above demand characteristics, the current housing shortage totals to 10,980 units, of which 5,220 units are for single-family dwellings and 5,340 units are for rentals. The shortage by 2027 is in primarily affordable units, as opposed to market-rate units. A shortage of 11,300 affordable housing units is anticipated, of which 7,010 (62 percent) are units for households earning 80 percent or below of the AMI.

TABLE II-9: HOUSING UNIT SHORTAGE

| CHARACTERISTIC | HOUSING S | HORTAGE |
|------------------------------|-----------|---------|
| CHARACTERISTIC | 2020 | By 2027 |
| TOTAL | 10,980 | 13,600 |
| STRUCTURE TYPE | | |
| Single Family | 5,220 | 7,480 |
| Multi-Family | 5,760 | 6,130 |
| TENURE | | |
| Own | 5,640 | 9,020 |
| Rent | 5,340 | 4,590 |
| AFFORDABILITY | | |
| 80% AMI or below | 7,760 | 7,010 |
| 80% - 120% AMI | 1,710 | 4,290 |
| Subtotal: Less than 120% AMI | 9,470 | 11,300 |
| | | |
| 120% - 140% AMI | 670 | 2,220 |
| Market-Rate (over 140% AMI) | 840 | 90 |

The recent adoption of Ordinance 19-8 (Bill 7), which eased many building permit requirements for apartments, is anticipated to increase the supply of affordable rental housing. However, projects often experience delays, as they have during the past year, and as a result, shortages have increased, and are expected to continue to increase, over time. This means that if the DPP's housing demand projection holds, and the known projects identified in this report are fulfilled precisely in the manner assumed, then housing shortage will be higher by 2027. This conclusion should be viewed more as the logical consequence of the supply and demand assumptions made in this report. To the extent that these assumptions are wrong, the magnitude of the estimated shortage will be different. The reality is that a housing shortage is certain to exist in some form on Oahu because of structural reasons such as limited land, geographic isolation, global demand, and income inequality. These results and their derivation are detailed in the following sections.

a. Demand

Housing demand in terms of the above characteristics was derived from unpublished, raw data developed by the *Hawaii Housing Planning Study (HHPS)*³, a series of studies conducted by SMS Research and sponsored by the Hawaii Housing Finance and Development Corporation and other State and County agencies to assess the housing market in Hawaii. The HHPS conducted a series of Housing Demand Surveys from 2010 through 2019 to identify the structure, tenure, and affordability needs of residents. The surveys measured residents' opinions of their current housing conditions, their plans to move to new units, their new unit preferences, their financial qualifications for purchase or rent, and the demographic characteristics of household members. *Note that this report reflects updated data from the 2019 HHPS study, whereas prior Annual Reports incorporated data from the 2016 study.*

The HHPS results are displayed in **Figure II-7** and **Figure II-8**. The graphs track the housing choices revealed through the HHPS demand surveys by households who plan to move within Oahu and are qualified to realize that choice during the period 2010 to 2027.

FIGURE II-7 shows the housing preferences with respect to structure and tenure choices. Note that only Single-Family (SF) is shown for structure choice; Multi-Family (MF) is not shown because it is simply the complement of SF. Similarly, only Rent is shown for tenure choice. It can be seen that over time, the preference for SF housing drops, from 65 percent in 2010 to 45 percent by 2027. (Alternatively, this means that the preference for MF housing is expected to rise to about 55 percent over the same period.) The preference for Renter housing is also seen to decline, but changes in the opposite direction until about 2021. That is, a rise in SF preference corresponds to a decline in Renter preference, and vice versa. This suggests that SF is associated with owning, and MF is associated with renting. This relationship is consistent with expectation and historical experience.

³ Hawaii Housing Planning Study, 2019, https://dbedt.hawaii.gov/hhfdc/files/2020/01/FINAL-State Hawaii-Housing-Planning-Study.pdf

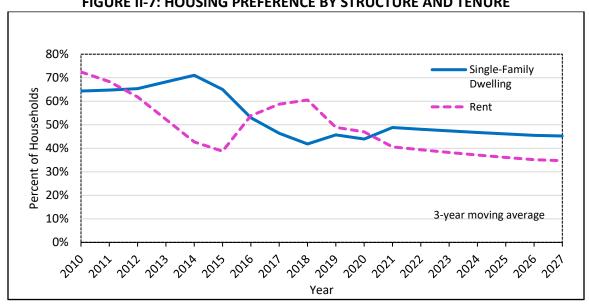


FIGURE II-7: HOUSING PREFERENCE BY STRUCTURE AND TENURE

However, a new relationship emerges after 2021, where the preference for SF and renting may both start to slowly decline. By 2027, about 65 percent of households may prefer to own, and 55 percent prefer MF housing. This differs from the 2016 HHPS survey results, in which 70 percent preferred MF housing by 2027. Despite this decline, it still suggests that the traditional aspiration of owning a SF house may be changing to owning a condominium unit. This shift is likely due to the confluence of two factors. First, the high cost of SF dwellings makes SF ownership out of reach for many, forcing these households to the realization that owning MF housing may be the only realistic choice. Second, housing in a MF setting is becoming more available, acceptable, and desirable as evidenced by the advent of livable MF communities in areas like Kakaako.

FIGURE II-8 shows the demand for two types of affordable housing based on income. The HHPS defined affordable housing as housing that is affordable to households earning up to 140 percent of the AMI, adjusted for household size. Based on data from the demand survey on the current and expected income of the respondents, the study found that 86.9 percent of all households on Oahu qualified under this threshold. The income data further enabled the households that qualify for affordable housing to be divided into two groups: 1) households earning up to 80 percent of AMI, and 2) households earning more than 80 percent but less than 140 percent of AMI.

It can be seen that in 2010, close to 85 percent of the demand for affordable housing came from households with incomes of 80 percent AMI or below, as compared to 15 percent coming from households with incomes of 80 percent to 140 percent AMI. The HHPS data show that the demand for low-income housing is expected to drop to about 52 percent by 2027, while the demand for moderate-income housing is expected to rise to a little over 48 percent by 2027. This results in a situation where the demand from these two income groups almost equally split the pool of affordable housing.

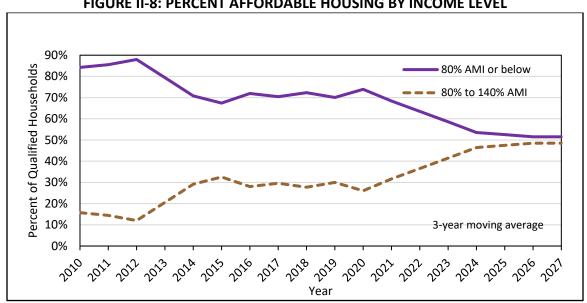


FIGURE II-8: PERCENT AFFORDABLE HOUSING BY INCOME LEVEL

It must be emphasized that this result is based entirely on the respondents' expectation of their future income as obtained from the demand surveys. There is no underlying economic study or analysis. Specifically, the demand surveys revealed that low-income households expect their future income to rise, while moderate-income households expect theirs' to fall, though to different degree.

These demand preferences were applied to the housing projections described in Chapter II.B. to arrive at housing demand projections specific by structure, tenure, and affordability characteristics.

b. Supply

For purposes of this short-term assessment, housing supply is defined to consist only of known projects, as discussed in Chapter II.C.1. Information is generally provided by developers to enable the classification of projects in terms of their structure, tenure, and affordability characteristics and to specify the construction schedule of these projects. However, it must be recognized that project delays are frequently encountered during the planning, permitting and construction stage and schedules can easily change. Also, estimates are based on developers' plans and timelines at the time they were surveyed. Developers often alter their plans and schedules in response to real or perceived changes in the marketplace. Where the information from developers is not sufficient, statistical relationships inferred from historical data and professional judgment were used to attribute the necessary characteristics and timing. It is therefore important to recognize the inherent imprecision of the supply data, and to take this uncertainty into account when interpreting the result of this assessment.

c. Shortage

The known projects associated with a given set of characteristics in a given year were then compared against the corresponding set of demand for that year. Any excess or unmet demand from one year was carried over to the subsequent year, until the year 2027, which was the last year for which HHPS survey data was available. This process yielded a determination of whether the known projects in the short-term are producing sufficient housing units to meet demand in terms of the demand characteristics. Figure II-9, Figure II-10 and Figure II-11 display the results of comparing supply and demand by structure type, tenure and affordability, respectively. Note that the data shown in the graphs are 3-year moving averages (i.e., the average over three years). This served to smooth out the graphs and eliminate spikes, but it also made the references to the timeline less precise – something that should be taken into account when the discussion involves time.

FIGURE II-9 shows housing production shortages by type of structure. That is, it describes the adequacy of the known projects in terms of producing sufficient SF and MF dwellings to meet the underlying demand from 2010 to 2027. It can be seen that housing production falls short of demand for both SF and MF for the entire 18-year time period. There are, however, differences in how and when the shortages occur as described below in three stages.

The first stage from 2010 to 2014 depicts a housing market in recovery in the aftermath of the financial meltdown of 2007. SF and MF were respectively producing about 600 and 700 units per year, which is well below their historical rate. Demand meanwhile continued forward because of the need to house the growing population. Because the market could not fully accommodate the underlying demand, the unmet demand accumulated over time, resulting in the production shortages shown. Because households preferred SF over MF housing during this period, as shown in **Figure II-7**, SF shortage steadily outpaced that of MF. The gap reached a peak in 2014, when SF shortage exceeded MF shortage by more than 4,000 units.

Around 2018, the shortage of MF dwellings equals that of SF dwellings. In subsequent years, the shortage increases for both SF and MF dwellings. The result for 2027 is unclear because the data is not definitive. However, it should be noted that this short-term assessment is based on DBEDT's 2040 population projection series, where the 2020 population is only an estimate. Although data from the 2020 U.S. Census is not available as of this writing, it is expected to result in a population count for 2020 that is higher than the estimate. This will mean a higher housing demand for 2027, and in turn greater production shortages. Thus, it can be said that there will likely be a production shortage by 2027, and that shortage will likely be greater for MF than for SF, but that both shortages will likely be much lower than the shortages observed in the past.

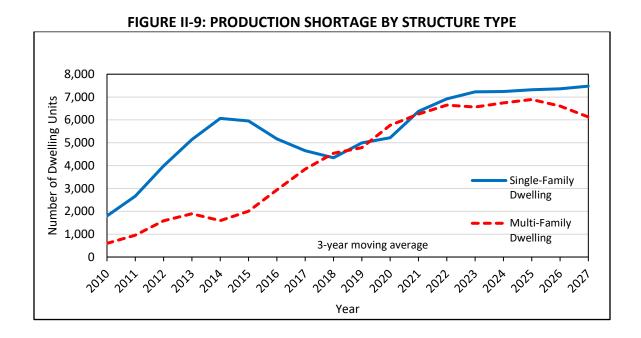
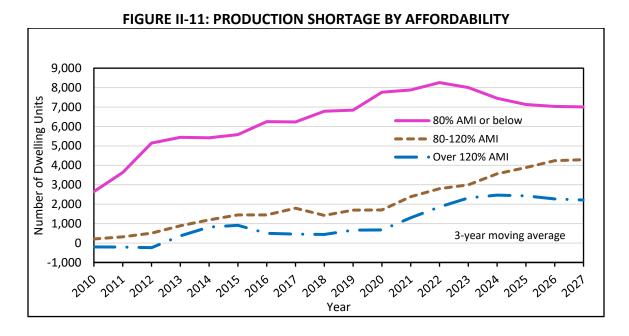


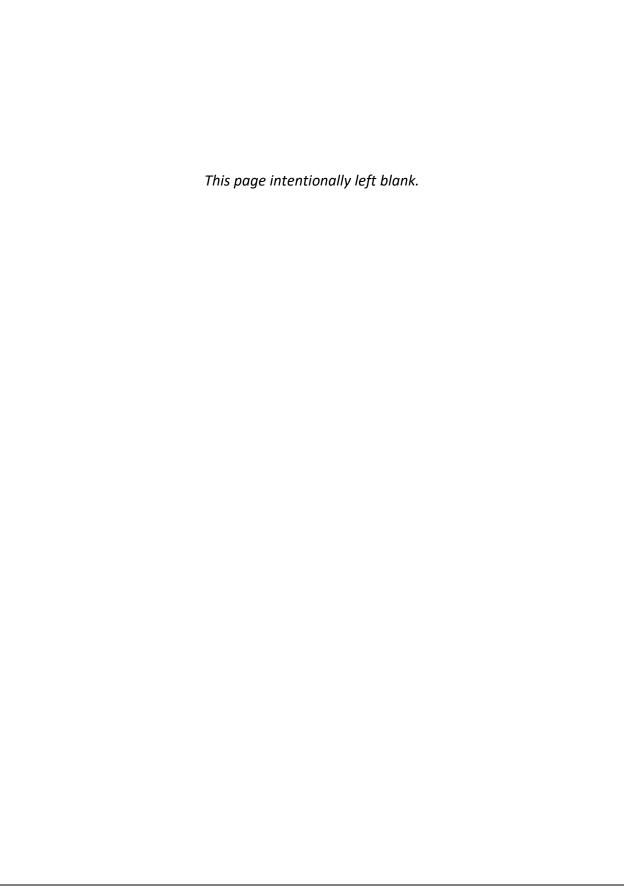
FIGURE II-10 shows production shortages by tenure. That is, it compares Owner units (defined as housing units built to be individually owned) with Renter units (defined as units in rental buildings) in term of their production adequacy. It should be pointed out that the timeline of Renter projects are not known with the same degree of specificity as structure types. Therefore, describing the timeline with great detail is neither helpful nor advisable. With this in mind, it can be said that up to about 2019, Renter units face a greater production shortage. For the next eight years, Owner units may face a greater shortage.



FIGURE II-11 shows the production shortages by affordability. Three types of affordable housing are described: 80 percent AMI or below, 80-120 percent AMI, and over 120 percent AMI. Like Renter housing, the timeline of affordable housing projects is not known with great specificity. In addition, the percent AMI definition of the affordable projects is often not known. Where this information is not available, assumptions are made. Therefore, only general statements can be made with regard to housing shortages by affordability. The data confirms the obvious fact that production shortages exist throughout the 18-year period for all types of affordable housing. Also as expected, the shortage is greater for those with incomes of 80 percent AMI or below compared to those with higher incomes. The housing shortage for low-income households continues to increase until it reaches a peak of about 8,300 units around 2022. Households with incomes between 80 percent and 120 percent AMI display a lower shortage. It began with a low shortage in 2010, reflecting in part the depressed housing market in recovery after the 2007 financial meltdown. The shortage may then increase steadily, until a shortage of about 4,300 units in 2027. Households with incomes higher than 120 percent AMI have the lowest housing shortage. There was a small surplus in 2010 through 2012, which reverted to a shortage of about 400 units by 2013. The shortage is expected to fluctuate somewhat through the years, while increasing, and ending with a shortage of about 2,200 units in 2027.



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CHAPTER III: LAND USE PLANNING AND APPROVALS

A. DEVELOPMENT PLANS

The City's long-range land use planning tool consists of eight regional plans, called DPs or SCPs. Each plan provides a guide for all public and private decisions on physical development within the region, and describes: (1) the region's role within the islandwide growth policy; (2) the plan's vision for the area's future; (3) detailed regional or area-specific policy guidance on land use and infrastructure development; (4) tools to implement the plan; and (5) conceptual maps and other illustrations of the plan's policies.

These long-range plans serve as a guide to both the City's zoning controls and its infrastructure plans and expenditures. They provide a policy bridge between the State Land Use Districts and county land use regulations. There is also a separate Public Infrastructure Map (PIM) system that depicts specific types of future infrastructure projects. The PIM for each region shows the general location of certain major public infrastructure that affects regional development capacity and growth.

TABLE III-1 provides the current status of the development plans.

TABLE III-1: STATUS OF DEVELOPMENT PLANS

| DEVELOPMENT PLAN / SUSTAINABLE COMMUNITIES PLAN | STATUS | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|
| Primary Urban Center | Adopted June 2004; revised plan underway | | | | | | | | | | |
| Ewa | Adopted July 2013; amended December 2020 | | | | | | | | | | |
| Central Oahu | Adopted March 2021 | | | | | | | | | | |
| East Honolulu | Adopted April 2021 | | | | | | | | | | |
| Koolau Poko | Adopted August 2017 | | | | | | | | | | |
| Koolau Loa | Adopted February 2021 | | | | | | | | | | |
| North Shore | Adopted May 2011; revised plan underway | | | | | | | | | | |
| Waianae | Adopted March 2012 | | | | | | | | | | |

Changes to these plans on specific matters can be proposed at any time, but the main avenue for plan revisions is their required periodic review, which must begin five years after approval, and which includes a thorough analysis of: (1) the validity of each plan's vision and policies, and (2) the effectiveness of its implementation measures. Future revised development plans may transition to a ten-year periodic review.

B. STATE LAND USE DISTRICT BOUNDARY AMENDMENTS

TABLE III-2 provides information on a State Land Use district boundary amendment adopted in FY 2020.

TABLE III-2: STATE LAND USE DISTRICT BOUNDARY AMENDMENTS

| PROJECT NAME | REDESIGNATION | ACRES | DATE OF APPROVAL | CONTROL NUMBER | SUMMARY OF REQUIRED CONDITIONS |
|-------------------|-----------------------|---------|---------------------|--------------------|--------------------------------|
| There were no Sta | ate Land Use district | boundar | y amendments a | dopted during this | period. |

C. ZONE CHANGES

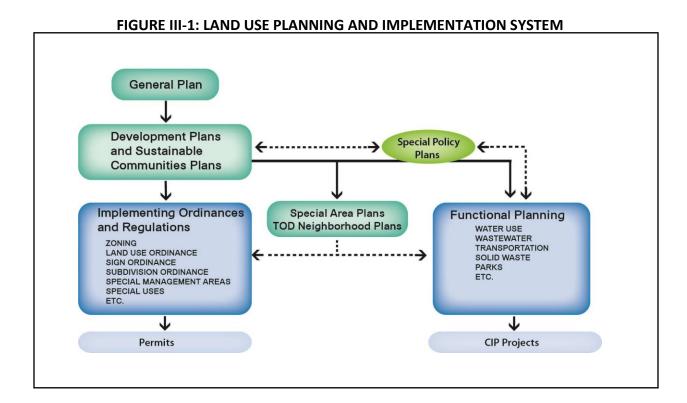
TABLE III-3 provides data on zone changes approved in FY 2020.

TABLE III-3: ZONE CHANGES APPROVED

| ORD. | ORD. | DPP NUMBER | LOCATION OR PROJECT NAME | APPROVED ZONE CHA | CHANGED TO URBAN | |
|-------|--------|---------------|--------------------------|-------------------|------------------------|------|
| NO. | DATE | NUIVIDER | | FROM/TO | ACRES | USE? |
| 20-12 | 6/4/20 | 2019/Z-3 | Haleiwa KEM 7309, LLC | from R-5 to B-1 | 0.302 | |

D. LAND USE AND INFRASTRUCTURE PLANNING

The relationship between the different parts of the City's land-use and infrastructure planning system is depicted in **Figure III-1**. This diagram shows the City's planning tiers. The GP is the first tier of planning for the City that sets forth the desired distribution pattern for Oahu's population and includes policy guidance that considers the physical, social, cultural, economic, and environmental concerns affecting Oahu. All subsequent DPs, Sustainable Communities Plans, Area Plans, and other Special Policy Plans and Functional Plans, must be consistent with the GP. Ordinances and Regulations are the policy and regulatory tools that implement the GP and often implement the City's more detailed levels of planning.

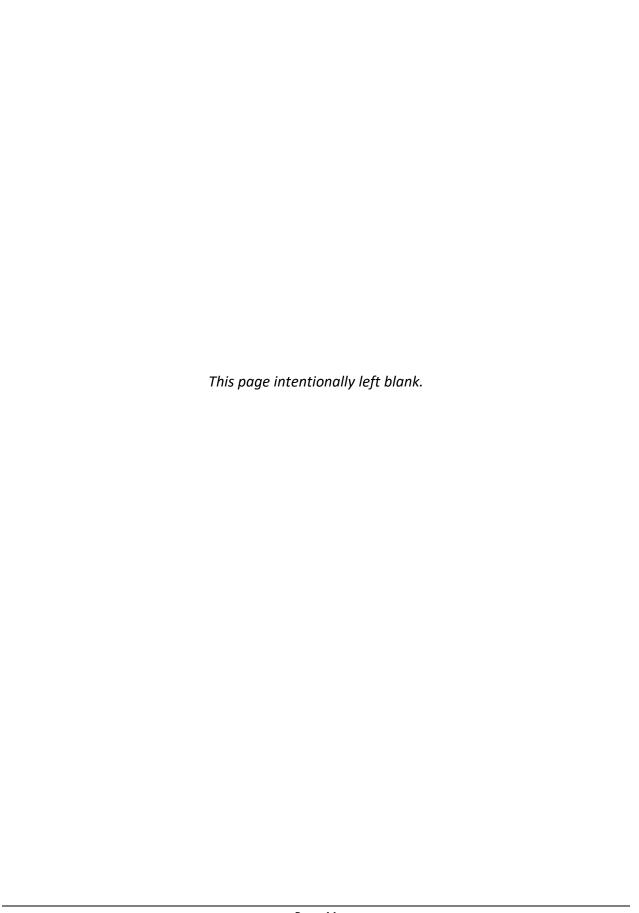


E. ORDINANCES

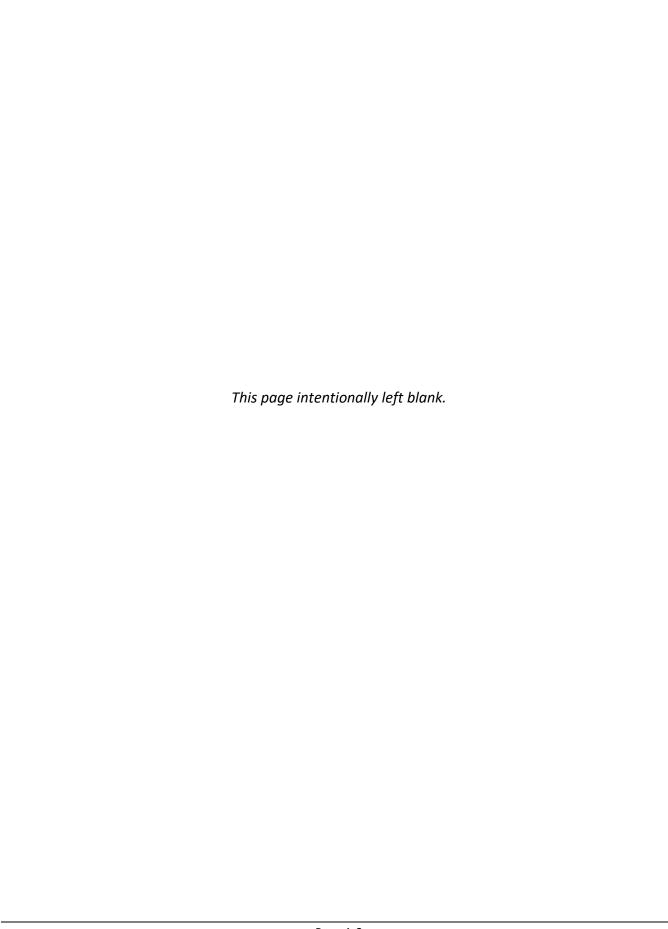
Recent noteworthy ordinances pertaining to land use planning and housing development are summarized in **TABLE III-4**.

TABLE III-4: NOTEWORTHY ORDINANCES

| ORDINANCE | DESCRIPTION |
|------------------------------|--|
| 20-6 Relating to Condominium | Amends the provisions of the Land Use Ordinance pertaining to |
| Property Regimes | condominiums and condominium property regimes. |
| 20-11 Relating to Affordable | Amends the affordable housing incentives enacted by Ordinance 18-1, as |
| Housing Incentives | amended by Ordinance 19-8. |
| 20-13 Relating to Affordable | Amends the regulations for rental housing in Ordinance 19-8. |
| Rental Housing | |



APPENDIX A: SUMMARIES OF SELECTED CHARACTERISTICS FOR THE PERIOD 2015-2019



Page A-

TABLE A-1: POPULATION, HOUSING UNITS, HOUSEHOLDS, AND INCOME BY DP SUBAREA

| | POPULA | | HOUSING | - | HOUSEHOI | | AVERA | GE | MEDIAN HOUSEHOLD INCOME |
|------------------------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|-------------------------------|
| DP SUBAREA | Estimate | MOE (+ -) | Estimate (\$) |
| HONOLULU COUNTY TOTALS | 984,821 | 0 | 350,571 | 317 | 312,795 | 1,538 | 3.03 | 0.02 | 85,857 |
| PRIMARY URBAN CENTER | 448,984 | 6,028 | 183,854 | 1,710 | 159,094 | 1,705 | 2.70 | 0.05 | 75,164 |
| Waialae-Kahala | 6,752 | 577 | 3,041 | 192 | 2,686 | 192 | 2.51 | 0.28 | 108,343 |
| Kaimuki | 18,518 | 1,055 | 6,980 | 287 | 6,122 | 286 | 2.96 | 0.22 | 101,373 |
| Diamond Head | 18,860 | 1,095 | 8,727 | 347 | 7,387 | 339 | 2.53 | 0.19 | 81,118 |
| Palolo | 13,197 | 1,081 | 4,660 | 238 | 4,226 | 255 | 3.08 | 0.31 | 72,971 |
| Manoa | 24,241 | 1,235 | 7,671 | 309 | 6,955 | 307 | 2.81 | 0.20 | 100,098 |
| McCully/Moiliili | 27,199 | 1,483 | 14,290 | 504 | 12,526 | 519 | 2.12 | 0.15 | 54,011 |
| Waikiki | 17,901 | 954 | 19,324 | 526 | 10,531 | 507 | 1.68 | 0.12 | 59,702 |
| Makiki | 31,591 | 1,534 | 17,440 | 625 | 15,920 | 608 | 1.96 | 0.12 | 62,591 |
| Ala Moana/Kakaako | 23,045 | 1,468 | 14,998 | 630 | 11,952 | 604 | 1.92 | 0.16 | 62,887 |
| Nuuanu/Punchbowl | 17,217 | 1,393 | 6,913 | 388 | 6,028 | 388 | 2.81 | 0.29 | 93,228 |
| Downtown | 12,956 | 837 | 7,954 | 327 | 7,004 | 340 | 1.84 | 0.15 | 55,431 |
| Liliha/Kapalama | 23,494 | 1,466 | 6,929 | 313 | 6,487 | 311 | 3.40 | 0.28 | 87,557 |
| Kalihi-Palama | 42,378 | 2,180 | 11,655 | 404 | 10,959 | 411 | 3.62 | 0.24 | 54,392 |
| Kalihi Valley | 21,082 | 1,592 | 4,630 | 250 | 4,397 | 254 | 4.71 | 0.45 | 98,123 |
| Moanalua | 9,231 | 922 | 3,234 | 219 | 2,969 | 211 | 2.95 | 0.37 | 87,478 |
| Aliamanu | 39,136 | 1,820 | 12,886 | 433 | 12,057 | 441 | 3.20 | 0.19 | 84,575 |
| Airport Area | 23,764 | 1,224 | 6,722 | 314 | 6,320 | 326 | 3.23 | 0.24 | 75,000 |
| Aiea | 32,817 | 1,624 | 11,244 | 417 | 10,579 | 421 | 3.02 | 0.19 | 88,052 |
| Waiau/Pacific Palisades | 45,605 | 1,734 | 14,556 | 354 | 13,989 | 365 | 3.14 | 0.15 | 100,062 |
| EWA | 121,520 | 3,739 | 35,471 | 684 | 33,156 | 697 | 3.63 | 0.14 | 104,620 |
| Ewa Villages/Honouliuli | 6,585 | 1,073 | 1,723 | 206 | 1,697 | 205 | 3.87 | 0.79 | 75,150 |
| Ewa Gentry/West Loch | 33,616 | 1,749 | 9,769 | 299 | 9,351 | 317 | 3.59 | 0.22 | 110,400 |
| Ewa Beach/Iroquois Point | 19,492 | 1,709 | 4,872 | 261 | 4,377 | 265 | 4.40 | 0.47 | 97,628 |
| Ocean Pointe | 13,153 | 976 | 3,952 | 198 | 3,863 | 205 | 3.40 | 0.31 | 119,338 |
| Kalaeloa/Campbell Industrial | 2,491 | 440 | 792 | 55 | 678 | 89 | 2.58 | 0.54 | 54,772 |
| Ko Olina/Honokai Hale | 2,961 | 377 | 1,722 | 67 | 1,013 | 95 | 2.91 | 0.46 | 109,201 |
| City Of Kapolei | 2,980 | 403 | 1,022 | 120 | 1,022 | 120 | 2.83 | 0.51 | 125,152 |
| Kapolei Villages | 16,899 | 1,634 | 4,600 | 293 | 4,401 | 283 | 3.84 | 0.45 | 97,604 |
| Kapolei East | 3,541 | 892 | 930 | 177 | 884 | 178 | 3.96 | 1.29 | 84,120 |
| Makakilo/Makaiwa | 19,802 | 1,389 | 6,089 | 299 | 5,870 | 298 | 3.37 | 0.29 | 110,701 |

TABLE A-1, CONTINUED

| | | | IABLE | A-1, CONTI | NOED | AVERA | GE | MEDIAN HOUSEHOLD | |
|--------------------------|---------------------|--------------|----------|--------------|----------|--------------|----------|---------------------|---------------|
| | POPULA [*] | TION | HOUSING | UNITS | HOUSEHOL | .DS | HOUSEHOL | D SIZE | INCOME |
| DP SUBAREA | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate (\$) |
| CENTRAL OAHU | 171,206 | 4,103 | 51,160 | 826 | 48,719 | 852 | 3.37 | 0.10 | 86,898 |
| Village Park/Kunia | 14,880 | 1,545 | 4,145 | 288 | 3,983 | 291 | 3.74 | 0.47 | 112,919 |
| Waipahu | 39,923 | 2,459 | 8,876 | 356 | 8,505 | 364 | 4.51 | 0.34 | 77,792 |
| Waikele | 7,442 | 935 | 2,882 | 263 | 2,765 | 270 | 2.69 | 0.43 | 104,054 |
| Waipio | 11,649 | 787 | 3,967 | 193 | 3,792 | 197 | 3.04 | 0.26 | 90,522 |
| Waiawa | 435 | 156 | 0 | 0 | 0 | 0 | 0.00 | 0.00 | 0 |
| Mililani | 33,013 | 1,423 | 10,916 | 322 | 10,576 | 328 | 3.12 | 0.17 | 95,876 |
| Mililani Mauka/Launani | 20,090 | 778 | 7,275 | 210 | 6,961 | 224 | 2.88 | 0.15 | 113,172 |
| Wahiawa/Whitmore | 21,944 | 1,620 | 7,323 | 388 | 6,840 | 395 | 3.14 | 0.30 | 65,004 |
| Schofield/Wheeler | 21,830 | 1,278 | 5,776 | 260 | 5,297 | 287 | 3.30 | 0.27 | 62,121 |
| EAST HONOLULU | 47,540 | 1,307 | 18,534 | 230 | 16,560 | 392 | 2.86 | 0.10 | 133,165 |
| Hawaii Kai | 29,066 | 1,337 | 11,430 | 369 | 10,254 | 393 | 2.83 | 0.17 | 126,030 |
| Kuliouou-Kalani Iki | 15,922 | 928 | 6,071 | 245 | 5,314 | 246 | 2.97 | 0.22 | 148,090 |
| Waialae Nui/Country Club | 2,552 | 182 | 1,033 | 21 | 992 | 44 | 2.50 | 0.21 | 128,493 |
| KOOLAU POKO | 112,829 | 2,910 | 36,595 | 638 | 34,269 | 635 | 3.14 | 0.10 | 106,664 |
| Kahaluu | 13,220 | 1,165 | 4,399 | 218 | 4,139 | 228 | 3.17 | 0.33 | 114,172 |
| Kaneohe | 38,409 | 1,653 | 12,835 | 366 | 12,103 | 370 | 3.11 | 0.16 | 111,012 |
| Kailua | 40,269 | 1,576 | 14,112 | 383 | 13,184 | 372 | 2.98 | 0.15 | 115,292 |
| Waimanalo | 9,642 | 1,068 | 2,435 | 192 | 2,226 | 181 | 4.31 | 0.59 | 92,977 |
| Mokapu | 11,289 | 868 | 2,814 | 204 | 2,617 | 207 | 2.97 | 0.34 | 59,878 |
| KOOLAU LOA | 15,092 | 1,124 | 4,540 | 232 | 3,368 | 204 | 3.87 | 0.40 | 86,494 |
| Kahuku/Kawela | 2,402 | 421 | 1,135 | 125 | 660 | 93 | 3.59 | 0.81 | 87,677 |
| Laie | 7,754 | 898 | 1,467 | 165 | 1,267 | 146 | 4.56 | 0.86 | 95,435 |
| Hauula/Punaluu | 3,804 | 489 | 1,440 | 91 | 1,030 | 93 | 3.63 | 0.58 | 76,973 |
| Kaaawa | 1,132 | 201 | 498 | 55 | 411 | 53 | 2.75 | 0.60 | 86,363 |
| NORTH SHORE | 17,679 | 1,402 | 6,766 | 354 | 5,531 | 349 | 3.16 | 0.32 | 84,408 |
| Mokuleia | 2,341 | 368 | 1,056 | 95 | 819 | 96 | 2.86 | 0.56 | 85,191 |
| Waialua | 3,175 | 453 | 1,125 | 132 | 1,009 | 130 | 3.14 | 0.60 | 83,201 |
| Haleiwa | 3,566 | 645 | 1,109 | 143 | 940 | 130 | 3.79 | 0.86 | 74,041 |
| Kawailoa | 4,008 | 597 | 1,540 | 152 | 1,258 | 155 | 3.05 | 0.59 | 70,517 |
| Sunset Beach/Pupukea | 4,589 | 924 | 1,936 | 236 | 1,505 | 234 | 3.05 | 0.78 | 103,382 |
| WAIANAE | 49,971 | 2,758 | 13,651 | 478 | 12,098 | 482 | 3.97 | 0.27 | 69,139 |
| Nanakuli | 11,900 | 951 | 2,931 | 160 | 2,778 | 164 | 4.28 | 0.43 | 71,470 |
| Maili | 12,197 | 1,872 | 2,922 | 327 | 2,827 | 315 | 4.00 | 0.79 | 86,154 |
| Waianae | 16,467 | 1,382 | 4,490 | 232 | 3,955 | 246 | 3.96 | 0.41 | 63,327 |
| Makaha/Kaena | 9,407 | 1,135 | 3,308 | 206 | 2,538 | 212 | 3.63 | 0.55 | 58,699 |

TABLE A-2: HOUSING UNITS, TENURE, AND VACANCY RATES BY DP SUBAREA

| | | | | | USING UNITS | | | | 1 01 3007 | | /ACANT HOUSII | NG UNITS | <u> </u> | |
|-----------------------------------|------------|--------------|-----------|--------------|-------------|--------------|-----------|--------------|-----------|--------------|---------------------|--------------|----------------------|--------------|
| | Occupied l | Inits | Owner Occ | unied | Renter Occ | unied | Home Owne | ership | Vacant U | nits | Vacancy R (Owner | - 1 | Vacancy F (Rental | |
| DP SUBAREA | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate | MOE (+ -) | Estimate | MOE (+ -) |
| HONOLULU COUNTY TOTALS | 312,795 | 1,538 | 175,751 | 2,028 | 137,044 | 1,823 | 56% | 1% | 37,776 | 1,512 | 1% | 0% | 5% | 1% |
| PRIMARY URBAN CENTER | 159,094 | 1,705 | 74,906 | 1,260 | 84,188 | 1,608 | 47% | 1% | 24,760 | 1,170 | 2% | 0% | 7% | 1% |
| Waialae-Kahala | 2,686 | 192 | 1,861 | 168 | 825 | 163 | 69% | 8% | 355 | 139 | 3% | 3% | 2% | 3% |
| Kaimuki | 6,122 | 286 | 4,125 | 265 | 1,997 | 241 | 67% | 5% | 858 | 210 | 0% | 0% | 6% | 4% |
| Diamond Head | 7,387 | 339 | 4,026 | 285 | 3,361 | 318 | 55% | 5% | 1,340 | 252 | 4% | 3% | 4% | 3% |
| Palolo | 4,226 | 255 | 2,254 | 206 | 1,972 | 242 | 53% | 6% | 434 | 143 | 2% | 2% | 7% | 4% |
| Manoa | 6,955 | 307 | 4,377 | 267 | 2,578 | 272 | 63% | 5% | 716 | 219 | 1% | 1% | 9% | 5% |
| McCully/Moiliili | 12,526 | 519 | 3,724 | 322 | 8,802 | 529 | 30% | 3% | 1,764 | 353 | 1% | 1% | 6% | 2% |
| Waikiki | 10,531 | 507 | 4,232 | 351 | 6,299 | 451 | 40% | 4% | 8,793 | 551 | 4% | 3% | 23% | 4% |
| Makiki | 15,920 | 608 | 6,806 | 451 | 9,114 | 595 | 43% | 3% | 1,520 | 368 | 3% | 2% | 6% | 2% |
| Ala Moana/Kakaako | 11,952 | 604 | 4,297 | 406 | 7,655 | 569 | 36% | 4% | 3,046 | 522 | 2% | 2% | 6% | 3% |
| Nuuanu/Punchbowl | 6,028 | 388 | 3,437 | 286 | 2,591 | 350 | 57% | 6% | 885 | 273 | 2% | 3% | 9% | 6% |
| Downtown | 7,004 | 340 | 2,301 | 218 | 4,703 | 333 | 33% | 4% | 950 | 212 | 0% | 0% | 8% | 3% |
| Liliha/Kapalama | 6,487 | 311 | 3,776 | 262 | 2,711 | 277 | 58% | 5% | 442 | 145 | 0% | 0% | 0% | 0% |
| Kalihi-Palama | 10,959 | 411 | 3,108 | 263 | 7,851 | 407 | 28% | 3% | 696 | 169 | 0% | 0% | 4% | 1% |
| Kalihi Valley | 4,397 | 254 | 2,668 | 212 | 1,729 | 221 | 61% | 6% | 233 | 90 | 1% | 1% | 1% | 1% |
| Moanalua | 2,969 | 211 | 1,466 | 153 | 1,503 | 171 | 49% | 6% | 265 | 123 | 2% | 2% | 3% | 3% |
| Aliamanu | 12,057 | 441 | 6,439 | 359 | 5,618 | 433 | 53% | 4% | 829 | 227 | 1% | 1% | 2% | 2% |
| Airport Area | 6,320 | 326 | 43 | 19 | 6,277 | 326 | 1% | 0% | 402 | 139 | 0% | 0% | 3% | 2% |
| Aiea | 10,579 | 421 | 6,180 | 338 | 4,399 | 419 | 58% | 4% | 665 | 203 | 1% | 1% | 2% | 2% |
| Waiau/Pacific Palisades | 13,989 | 365 | 9,786 | 346 | 4,203 | 292 | 70% | 3% | 567 | 182 | 0% | 0% | 5% | 3% |
| EWA | 33,156 | 697 | 22,935 | 663 | 10,221 | 623 | 69% | 2% | 2,315 | 334 | 1% | 1% | 4% | 1% |
| Ewa Villages/Honouliuli | 1,697 | 205 | 1,201 | 182 | 496 | 146 | 71% | 14% | 26 | 29 | 0% | 0% | 0% | 0% |
| Ewa Gentry/West Loch | 9,351 | 317 | 7,116 | 362 | 2,235 | 300 | 76% | 5% | 418 | 162 | 1% | 1% | 2% | 3% |
| Ewa Beach/Iroquois Point | 4,377 | 265 | 2,396 | 229 | 1,981 | 198 | 55% | 6% | 495 | 173 | 1% | 2% | 7% | 4% |
| Ocean Pointe | 3,863 | 205 | 3,054 | 215 | 809 | 208 | 79% | 7% | 89 | 59 | 0% | 0% | 3% | 4% |
| Kalaeloa/Campbell Industrial Park | 678 | 89 | 0 | 0 | 678 | 89 | 0% | 0% | 114 | 66 | 0% | 0% | 7% | 5% |
| Ko Olina/Honokai Hale | 1,013 | 95 | 610 | 84 | 403 | 85 | 60% | 10% | 709 | 91 | 3% | 4% | 10% | 8% |
| City Of Kapolei | 1,022 | 120 | 632 | 97 | 390 | 130 | 62% | 12% | 0 | 0 | 0% | 0% | 0% | 0% |
| Kapolei Villages | 4,401 | 283 | 3,056 | 257 | 1,345 | 269 | 69% | 7% | 199 | 150 | 2% | 2% | 3% | 3% |
| Kapolei East | 884 | 178 | 557 | 125 | 327 | 142 | 63% | 19% | 46 | 45 | 0% | 0% | 0% | 0% |
| Makakilo/Makaiwa Hills/Kunia | 5,870 | 298 | 4,313 | 281 | 1,557 | 263 | 73% | 6% | 219 | 119 | 1% | 2% | 3% | 3% |

TABLE A-2. CONTINUED

| | | | OCC | | TABLE A-2 USING UNITS | , con | IIIVOLD | | | | /ACANT HOUSII | NC LINITS | | |
|--------------------------|------------|-------|-----------|----------|-----------------------|-------|-----------|--------|-----------|----------|---------------|-----------|-----------|-------|
| | | | OCC | OPIED HO | OSING UNITS | | Home Owne | ershin | | <u> </u> | Vacancy R | | Vacancy F | Rate |
| | Occupied l | Jnits | Owner Occ | upied | Renter Occ | upied | Rate | | Vacant Ur | nits | (Owner | | (Rental | |
| | | MOE | | MOE | | MOE | | MOE | | MOE | (0.1110 | MOE | (| MOE |
| DP SUBAREA | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| CENTRAL OAHU | 48,719 | 852 | 29,147 | 709 | 19,572 | 787 | 60% | 2% | 2,441 | 372 | 0% | 0% | 3% | 1% |
| Village Park/Kunia | 3,983 | 291 | 3,097 | 270 | 886 | 192 | 78% | 9% | 162 | 102 | 0% | 0% | 9% | 8% |
| Waipahu | 8,505 | 364 | 4,406 | 282 | 4,099 | 343 | 52% | 4% | 371 | 141 | 0% | 0% | 3% | 2% |
| Waikele | 2,765 | 270 | 1,894 | 206 | 871 | 270 | 68% | 10% | 117 | 110 | 0% | 0% | 4% | 7% |
| Waipio | 3,792 | 197 | 2,750 | 184 | 1,042 | 192 | 73% | 6% | 175 | 111 | 0% | 0% | 8% | 7% |
| Waiawa | 0 | 0 | 0 | 0 | 0 | 0 | 0% | 0% | 0 | 0 | 0% | 0% | 0% | 0% |
| Mililani | 10,576 | 328 | 8,064 | 332 | 2,512 | 276 | 76% | 4% | 340 | 141 | 1% | 1% | 4% | 3% |
| Mililani Mauka/Launani | 6,961 | 224 | 5,513 | 244 | 1,448 | 232 | 79% | 4% | 314 | 145 | 0% | 0% | 2% | 2% |
| Wahiawa/Whitmore | 6,840 | 395 | 3,382 | 322 | 3,458 | 374 | 49% | 6% | 483 | 162 | 0% | 0% | 3% | 2% |
| Schofield/Wheeler | 5,297 | 287 | 41 | 31 | 5,256 | 291 | 1% | 1% | 479 | 127 | 0% | 0% | 1% | 0% |
| EAST HONOLULU | 16,560 | 392 | 13,749 | 387 | 2,811 | 351 | 83% | 3% | 1,974 | 366 | 1% | 1% | 5% | 4% |
| Hawaii Kai | 10,254 | 393 | 8,213 | 353 | 2,041 | 302 | 80% | 5% | 1,176 | 292 | 1% | 1% | 6% | 5% |
| Kuliouou-Kalani Iki | 5,314 | 246 | 4,726 | 242 | 588 | 144 | 89% | 6% | 757 | 190 | 1% | 1% | 5% | 8% |
| Waialae Nui/Country Club | 992 | 44 | 810 | 75 | 182 | 82 | 82% | 8% | 41 | 43 | 0% | 0% | 0% | 0% |
| KOOLAU POKO | 34,269 | 635 | 23,501 | 584 | 10,768 | 527 | 69% | 2% | 2,326 | 346 | 1% | 0% | 3% | 1% |
| Kahaluu | 4,139 | 228 | 3,258 | 226 | 881 | 174 | 79% | 7% | 260 | 123 | 2% | 2% | 0% | 0% |
| Kaneohe | 12,103 | 370 | 8,930 | 359 | 3,173 | 301 | 74% | 4% | 732 | 203 | 1% | 1% | 4% | 3% |
| Kailua | 13,184 | 372 | 9,613 | 364 | 3,571 | 314 | 73% | 3% | 928 | 206 | 0% | 0% | 3% | 2% |
| Waimanalo | 2,226 | 181 | 1,679 | 167 | 547 | 127 | 75% | 10% | 209 | 98 | 0% | 0% | 0% | 0% |
| Mokapu | 2,617 | 207 | 21 | 21 | 2,596 | 207 | 1% | 1% | 197 | 107 | 0% | 0% | 1% | 2% |
| KOOLAU LOA | 3,368 | 204 | 1,761 | 156 | 1,607 | 165 | 52% | 6% | 1,172 | 148 | 1% | 1% | 3% | 2% |
| Kahuku/Kawela | 660 | 93 | 448 | 84 | 212 | 55 | 68% | 16% | 475 | 88 | 0% | 1% | 9% | 8% |
| Laie | 1,267 | 146 | 554 | 99 | 713 | 129 | 44% | 9% | 200 | 89 | 0% | 0% | 0% | 0% |
| Hauula/Punaluu | 1,030 | 93 | 488 | 75 | 542 | 79 | 47% | 8% | 410 | 74 | 2% | 3% | 6% | 6% |
| Kaaawa | 411 | 53 | 271 | 44 | 140 | 36 | 66% | 14% | 87 | 29 | 2% | 3% | 0% | 0% |
| NORTH SHORE | 5,531 | 349 | 2,719 | 251 | 2,812 | 296 | 49% | 5% | 1,235 | 258 | 3% | 3% | 1% | 1% |
| Mokuleia | 819 | 96 | 381 | 72 | 438 | 86 | 47% | 10% | 237 | 68 | 5% | 5% | 1% | 1% |
| Waialua | 1,009 | 130 | 635 | 99 | 374 | 99 | 63% | 13% | 116 | 64 | 0% | 0% | 1% | 2% |
| Haleiwa | 940 | 130 | 561 | 106 | 379 | 98 | 60% | 14% | 169 | 84 | 0% | 0% | 0% | 0% |
| Kawailoa | 1,258 | 155 | 268 | 69 | 990 | 146 | 21% | 6% | 282 | 109 | 9% | 11% | 1% | 1% |
| Sunset Beach/Pupukea | 1,505 | 234 | 874 | 179 | 631 | 198 | 58% | 15% | 431 | 197 | 4% | 7% | 0% | 0% |
| WAIANAE | 12,098 | 482 | 7,033 | 398 | 5,065 | 435 | 58% | 4% | 1,553 | 248 | 0% | 0% | 3% | 2% |
| Nanakuli | 2,778 | 164 | 1,875 | 132 | 903 | 141 | 67% | 6% | 153 | 73 | 0% | 0% | 0% | 0% |
| Maili | 2,827 | 315 | 1,793 | 280 | 1,034 | 278 | 63% | 12% | 95 | 109 | 0% | 0% | 0% | 0% |
| Waianae | 3,955 | 246 | 2,270 | 196 | 1,685 | 230 | 57% | 6% | 535 | 152 | 1% | 0% | 7% | 5% |
| Makaha/Kaena | 2,538 | 212 | 1,095 | 157 | 1,443 | 197 | 43% | 7% | 770 | 146 | 1% | 1% | 1% | 1% |

SOURCE: Compiled by the Department of Planning and Permitting based on the 2015-2019 American Community Survey 5 Year Estimates.

TABLE A-3: POPULATION BY AGE AND SEX BY DP SUBAREA

| | | AGE | | | | | | | | | | | | X | |
|-----------------------------------|--------|----------|-------|-----------|-------|-----------|-------|--------------|-------|------------|-------|----------|-------|----------|-------|
| | | Under Ag | e 18 | Age 18 to | o 19 | Age 20 to | o 21 | Age 22 to 64 | | Age 65 and | Older | Male | 9 | Fema | le |
| | MEDIAN | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE |
| DP SUBAREA | AGE | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| HONOLULU COUNTY TOTALS | 37.9 | 209,223 | 1,450 | 21,638 | 60 | 27,966 | 1,059 | 555,625 | 2,576 | 170,369 | 2,145 | 496,066 | 50 | 488,755 | 50 |
| PRIMARY URBAN CENTER | 40 | 80,835 | 2,041 | 9,888 | 703 | 12,566 | 835 | 257,928 | 3,436 | 87,767 | 1,776 | 225,640 | 3,539 | 223,344 | 3,494 |
| Waialae-Kahala | 53 | 1,086 | 183 | 64 | 39 | 57 | 43 | 3,354 | 326 | 2,191 | 251 | 3,415 | 348 | 3,337 | 321 |
| Kaimuki | 48 | 2,827 | 329 | 312 | 154 | 249 | 92 | 10,370 | 606 | 4,760 | 385 | 9,100 | 624 | 9,418 | 594 |
| Diamond Head | 44 | 2,585 | 343 | 269 | 102 | 504 | 163 | 11,569 | 695 | 3,933 | 354 | 9,216 | 658 | 9,644 | 642 |
| Palolo | 42 | 2,147 | 310 | 199 | 81 | 268 | 100 | 7,825 | 627 | 2,758 | 330 | 6,765 | 630 | 6,432 | 615 |
| Manoa | 38 | 3,542 | 368 | 1,926 | 326 | 1,697 | 287 | 12,034 | 700 | 5,042 | 395 | 11,763 | 729 | 12,478 | 780 |
| McCully/Moiliili | 41 | 3,948 | 491 | 473 | 160 | 1,026 | 313 | 17,254 | 951 | 4,498 | 428 | 13,529 | 891 | 13,670 | 901 |
| Waikiki | 44 | 1,644 | 298 | 274 | 152 | 264 | 125 | 12,018 | 759 | 3,701 | 355 | 9,355 | 642 | 8,546 | 569 |
| Makiki | 46 | 4,036 | 512 | 326 | 133 | 482 | 199 | 19,292 | 1,080 | 7,455 | 565 | 15,201 | 935 | 16,390 | 965 |
| Ala Moana/Kakaako | 44 | 3,170 | 570 | 276 | 124 | 246 | 107 | 14,448 | 927 | 4,905 | 535 | 11,223 | 890 | 11,822 | 866 |
| Nuuanu/Punchbowl | 43 | 3,312 | 459 | 292 | 139 | 373 | 163 | 9,513 | 744 | 3,727 | 375 | 8,624 | 787 | 8,593 | 768 |
| Downtown | 48 | 1,555 | 309 | 131 | 92 | 182 | 90 | 7,994 | 574 | 3,094 | 310 | 6,421 | 532 | 6,535 | 489 |
| Liliha/Kapalama | 44 | 4,270 | 466 | 339 | 113 | 522 | 167 | 12,834 | 733 | 5,529 | 407 | 11,302 | 826 | 12,192 | 830 |
| Kalihi-Palama | 38 | 8,156 | 613 | 1,404 | 263 | 1,472 | 256 | 24,211 | 1,038 | 7,135 | 523 | 21,671 | 1,226 | 20,707 | 1,264 |
| Kalihi Valley | 42 | 4,175 | 411 | 543 | 140 | 544 | 155 | 12,101 | 706 | 3,719 | 357 | 10,595 | 881 | 10,487 | 846 |
| Moanalua | 42 | 2,025 | 336 | 159 | 86 | 240 | 108 | 4,811 | 468 | 1,996 | 268 | 4,555 | 526 | 4,676 | 527 |
| Aliamanu | 36 | 9,342 | 708 | 519 | 144 | 770 | 173 | 22,125 | 978 | 6,380 | 506 | 19,606 | 1,003 | 19,530 | 1,053 |
| Airport Area | 25 | 8,116 | 566 | 657 | 180 | 1,223 | 252 | 13,623 | 693 | 145 | 60 | 13,445 | 810 | 10,319 | 633 |
| Aiea | 39 | 6,223 | 578 | 659 | 163 | 1,008 | 223 | 19,174 | 957 | 5,753 | 431 | 16,964 | 976 | 15,853 | 926 |
| Waiau/Pacific Palisades | 42 | 8,676 | 649 | 1,066 | 218 | 1,439 | 310 | 23,378 | 946 | 11,046 | 563 | 22,890 | 1,011 | 22,715 | 1,031 |
| EWA | 34 | 33,400 | 1,421 | 2,193 | 330 | 2,533 | 361 | 70,123 | 1,872 | 13,271 | 753 | 60,220 | 2,082 | 61,300 | 2,106 |
| Ewa Villages/Honouliuli | 39 | 1,690 | 373 | 158 | 87 | 127 | 84 | 3,150 | 432 | 1,460 | 314 | 3,150 | 612 | 3,435 | 556 |
| Ewa Gentry/West Loch | 35 | 8,559 | 697 | 553 | 149 | 531 | 151 | 20,403 | 1,036 | 3,570 | 403 | 16,710 | 935 | 16,906 | 1,069 |
| Ewa Beach/Iroquois Point | 34 | 5,344 | 519 | 198 | 76 | 495 | 152 | 11,000 | 708 | 2,455 | 296 | 9,708 | 959 | 9,784 | 904 |
| Ocean Pointe | 34 | 4,079 | 494 | 217 | 105 | 214 | 101 | 7,597 | 607 | 1,046 | 191 | 6,662 | 566 | 6,491 | 568 |
| Kalaeloa/Campbell Industrial Park | 32 | 497 | 134 | 33 | 30 | 72 | 39 | 1,691 | 334 | 198 | 111 | 1,514 | 335 | 977 | 191 |
| Ko Olina/Honokai Hale | 37 | 642 | 119 | 15 | 16 | 80 | 66 | 1,741 | 215 | 483 | 84 | 1,502 | 190 | 1,459 | 230 |
| City Of Kapolei | 30 | 889 | 217 | 13 | 27 | 16 | 33 | 1,858 | 292 | 204 | 102 | 1,442 | 255 | 1,538 | 256 |
| Kapolei Villages | 32 | 5,288 | 635 | 497 | 162 | 271 | 101 | 9,445 | 729 | 1,398 | 255 | 8,379 | 962 | 8,520 | 852 |
| Kapolei East | 29 | 1,239 | 321 | 61 | 92 | 84 | 113 | 1,808 | 326 | 349 | 129 | 1,501 | 379 | 2,040 | 553 |
| Makakilo/Makaiwa Hills/Kunia | 34 | 5,173 | 544 | 448 | 159 | 643 | 193 | 11,430 | 704 | 2,108 | 265 | 9,652 | 750 | 10,150 | 811 |

| | | | | | TABLE | A-3, COI | NTINU | ED | | | | | | | |
|--------------------------|--------|----------|-------|----------|-------------------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
| | | | | | | AGE | | | | | | | SI | X | |
| | | Under Ag | ge 18 | Age 18 t | Age 22 to 64 Age 65 and Older | | | Mal | e | Female | | | | | |
| | MEDIAN | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE |
| DP SUBAREA | AGE | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| CENTRAL OAHU | 35 | 39,425 | 1,432 | 3,588 | 409 | 5,780 | 559 | 96,404 | 2,050 | 26,009 | 1,044 | 88,080 | 2,388 | 83,126 | 2,208 |
| Village Park/Kunia | 41 | 2,880 | 485 | 287 | 122 | 351 | 157 | 9,086 | 728 | 2,276 | 377 | 7,657 | 866 | 7,223 | 784 |
| Waipahu | 39 | 8,509 | 669 | 1,022 | 220 | 927 | 217 | 21,939 | 1,029 | 7,526 | 567 | 19,420 | 1,331 | 20,503 | 1,351 |
| Waikele | 36 | 1,502 | 320 | 121 | 97 | 106 | 90 | 4,731 | 555 | 982 | 228 | 3,790 | 546 | 3,652 | 478 |
| Waipio | 38 | 2,292 | 299 | 160 | 67 | 269 | 93 | 6,966 | 502 | 1,962 | 233 | 5,568 | 461 | 6,081 | 485 |
| Waiawa | 39 | 1 | 2 | 0 | 0 | 0 | 0 | 433 | 135 | 1 | 2 | 435 | 156 | 0 | 0 |
| Mililani | 41 | 6,824 | 549 | 484 | 145 | 895 | 198 | 18,158 | 797 | 6,652 | 434 | 16,919 | 858 | 16,094 | 777 |
| Mililani Mauka/Launani | 39 | 4,985 | 407 | 408 | 112 | 446 | 126 | 11,941 | 593 | 2,310 | 345 | 10,122 | 487 | 9,968 | 516 |
| Wahiawa/Whitmore | 37 | 5,230 | 578 | 427 | 163 | 567 | 175 | 11,534 | 756 | 4,186 | 457 | 11,436 | 974 | 10,508 | 838 |
| Schofield/Wheeler | 23 | 7,202 | 612 | 679 | 174 | 2,219 | 372 | 11,616 | 689 | 114 | 60 | 12,733 | 849 | 9,097 | 633 |
| EAST HONOLULU | 48.4 | 9,293 | 591 | 800 | 162 | 746 | 176 | 24,609 | 917 | 12,092 | 632 | 23,577 | 836 | 23,963 | 736 |
| Hawaii Kai | 47 | 6,076 | 546 | 514 | 137 | 436 | 136 | 14,943 | 776 | 7,097 | 496 | 14,427 | 783 | 14,639 | 757 |
| Kuliouou-Kalani Iki | 50 | 2,849 | 339 | 249 | 99 | 278 | 113 | 8,493 | 519 | 4,053 | 323 | 7,962 | 526 | 7,960 | 539 |
| Waialae Nui/Country Club | 56 | 368 | 92 | 37 | 30 | 32 | 30 | 1,173 | 178 | 942 | 155 | 1,188 | 141 | 1,364 | 142 |
| KOOLAU POKO | 39 | 23,110 | 1,022 | 2,775 | 368 | 3,845 | 440 | 62,115 | 1,505 | 20,984 | 783 | 57,581 | 1,726 | 55,248 | 1,629 |
| Kahaluu | 46 | 2,627 | 385 | 253 | 113 | 280 | 145 | 7,108 | 552 | 2,952 | 316 | 6,700 | 665 | 6,520 | 631 |
| Kaneohe | 44 | 7,265 | 582 | 613 | 151 | 502 | 123 | 21,798 | 893 | 8,231 | 495 | 18,960 | 923 | 19,449 | 939 |
| Kailua | 42 | 7,977 | 568 | 823 | 198 | 1,071 | 219 | 22,329 | 862 | 8,069 | 465 | 19,683 | 889 | 20,586 | 948 |
| Waimanalo | 38 | 2,345 | 312 | 317 | 120 | 353 | 142 | 4,895 | 394 | 1,732 | 228 | 4,777 | 601 | 4,865 | 597 |
| Mokapu | 22 | 2,896 | 371 | 769 | 216 | 1,639 | 298 | 5,985 | 514 | 0 | 0 | 7,461 | 730 | 3,828 | 347 |
| KOOLAU LOA | 29 | 4,042 | 371 | 893 | 212 | 734 | 168 | 7,757 | 494 | 1,666 | 189 | 7,724 | 684 | 7,368 | 627 |
| Kahuku/Kawela | 37 | 660 | 134 | 63 | 36 | 43 | 30 | 1,206 | 153 | 430 | 86 | 1,154 | 227 | 1,248 | 221 |
| Laie | 24 | 1,927 | 279 | 768 | 205 | 589 | 158 | 3,885 | 415 | 585 | 132 | 4,040 | 554 | 3,714 | 523 |
| Hauula/Punaluu | 34 | 1,159 | 192 | 46 | 32 | 84 | 44 | 2,010 | 202 | 505 | 96 | 1,967 | 316 | 1,837 | 239 |
| Kaaawa | 38 | 296 | 70 | 16 | 16 | 18 | 17 | 656 | 90 | 146 | 42 | 563 | 102 | 569 | 114 |
| NORTH SHORE | 34 | 4,131 | 452 | 275 | 106 | 446 | 172 | 10,321 | 710 | 2,506 | 285 | 9,007 | 804 | 8,672 | 759 |
| Mokuleia | 32 | 415 | 98 | 53 | 32 | 112 | 44 | 1,527 | 174 | 234 | 53 | 1,149 | 201 | 1,192 | 195 |
| Waialua | 39 | 745 | 150 | 67 | 42 | 19 | 18 | 1,706 | 208 | 638 | 117 | 1,602 | 243 | 1,573 | 251 |
| Haleiwa | 36 | 881 | 186 | 17 | 20 | 6 | 11 | 2,060 | 271 | 602 | 145 | 1,762 | 390 | 1,804 | 318 |
| Kawailoa | 26 | 1,127 | 255 | 138 | 90 | 233 | 156 | 2,168 | 357 | 342 | 93 | 2,006 | 328 | 2,002 | 361 |
| Sunset Beach/Pupukea | 35 | 963 | 269 | 0 | 0 | 76 | 54 | 2,860 | 480 | 690 | 187 | 2,488 | 536 | 2,101 | 493 |
| WAIANAE | 33 | 14,987 | 982 | 1,226 | 241 | 1,316 | 260 | 26,368 | 1,107 | 6,074 | 479 | 24,237 | 1,516 | 25,734 | 1,556 |
| Nanakuli | 31 | 3,449 | 341 | 396 | 117 | 381 | 89 | 6,336 | 420 | 1,338 | 173 | 5,624 | 521 | 6,276 | 562 |
| Maili | 33 | 3,784 | 670 | 295 | 147 | 320 | 192 | 6,400 | 725 | 1,398 | 322 | 6,134 | 1,002 | 6,063 | 1,077 |
| Waianae | 34 | 4,760 | 491 | 431 | 137 | 444 | 127 | 8,599 | 573 | 2,233 | 255 | 8,070 | 788 | 8,397 | 743 |
| Makaha/Kaena | 33 | 2,994 | 399 | 104 | 65 | 171 | 83 | 5,033 | 442 | 1,105 | 176 | 4,409 | 634 | 4,998 | 628 |

 $SOURCE: Compiled \ by \ the \ Department \ of \ Planning \ and \ Permitting \ based \ on \ the \ 2015-2019 \ American \ Community \ Survey \ 5 \ Year \ Estimates.$

TABLE A-4: RACE BY DP SUBAREA

| | | | | | 17152271 | | CE BY DP | | WHO REPOR | RTFD ON | F RACF | | | | | |
|-----------------------------------|----------|-------|----------|-------|----------|-------|----------------------|--------|---------------------|---------|----------|-------|----------------------------------|---------|----------|-------|
| | тота | | One Ra | ace | Whit | Δ | Black or A Americ | frican | American and Alaska | Indian | Asian A | lone | Native Ha and Other Island | Pacific | Some O | |
| | 1017 | MOE | One ne | MOE | VVIIIC | MOE | Americ | MOE | unu Alusku | MOE | Asian A | MOE | isiano | MOE | nace | MOE |
| DP SUBAREA | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| HONOLULU COUNTY TOTALS | 984,821 | 0 | 756,126 | 3,801 | 206,218 | 1,246 | 23,603 | 962 | 1,900 | 289 | 420,093 | 3,068 | 93,980 | 1,799 | 10,332 | 1,019 |
| PRIMARY URBAN CENTER | 448,984 | 6,028 | 361,603 | 5,467 | 82,224 | 2,421 | 10,698 | 1,154 | 653 | 181 | 229,139 | 4,574 | 33,691 | 2,447 | 5,198 | 692 |
| Waialae-Kahala | 6,752 | 577 | 5,748 | 542 | 2,301 | 397 | 20 | 25 | 0 | 0 | 3,255 | 372 | 127 | 125 | 45 | 45 |
| Kaimuki | 18,518 | 1,055 | 14,811 | 922 | 3,615 | 501 | 136 | 84 | 43 | 56 | 10,153 | 783 | 784 | 289 | 80 | 47 |
| Diamond Head | 18,860 | 1,095 | 14,899 | 1,000 | 4,442 | 615 | 155 | 112 | 38 | 29 | 9,276 | 825 | 849 | 319 | 139 | 88 |
| Palolo | 13,197 | 1,081 | 10,216 | 1,004 | 1,814 | 407 | 79 | 90 | 0 | 0 | 6,378 | 735 | 1,892 | 667 | 53 | 49 |
| Manoa | 24,241 | 1,235 | 19,310 | 1,032 | 5,096 | 572 | 164 | 73 | 40 | 50 | 12,946 | 861 | 901 | 388 | 163 | 104 |
| McCully/Moiliili | 27,199 | 1,483 | 22,312 | 1,335 | 4,283 | 637 | 368 | 190 | 44 | 38 | 14,533 | 1,131 | 2,663 | 584 | 421 | 203 |
| Waikiki | 17,901 | 954 | 16,149 | 948 | 7,658 | 619 | 689 | 438 | 17 | 20 | 6,902 | 699 | 712 | 242 | 171 | 123 |
| Makiki | 31,591 | 1,534 | 25,882 | 1,416 | 6,355 | 607 | 817 | 353 | 77 | 58 | 15,596 | 1,105 | 2,778 | 930 | 259 | 160 |
| Ala Moana/Kakaako | 23,045 | 1,468 | 19,618 | 1,349 | 3,330 | 484 | 321 | 184 | 0 | 0 | 14,879 | 1,186 | 851 | 442 | 237 | 230 |
| Nuuanu/Punchbowl | 17,217 | 1,393 | 12,272 | 1,128 | 2,344 | 433 | 265 | 223 | 0 | 0 | 7,204 | 803 | 2,374 | 754 | 85 | 79 |
| Downtown | 12,956 | 837 | 11,452 | 815 | 2,257 | 300 | 248 | 133 | 15 | 21 | 7,714 | 561 | 1,085 | 562 | 133 | 82 |
| Liliha/Kapalama | 23,494 | 1,466 | 18,209 | 1,352 | 2,072 | 352 | 77 | 55 | 10 | 15 | 14,439 | 1,303 | 1,509 | 460 | 102 | 79 |
| Kalihi-Palama | 42,378 | 2,180 | 35,632 | 2,002 | 2,098 | 490 | 318 | 134 | 48 | 39 | 26,886 | 1,837 | 6,106 | 858 | 176 | 92 |
| Kalihi Valley | 21,082 | 1,592 | 16,955 | 1,551 | 793 | 219 | 122 | 163 | 0 | 0 | 13,217 | 1,426 | 2,727 | 689 | 96 | 94 |
| Moanalua | 9,231 | 922 | 7,087 | 793 | 1,788 | 372 | 394 | 178 | 0 | 0 | 4,108 | 629 | 602 | 361 | 195 | 149 |
| Aliamanu | 39,136 | 1,820 | 32,196 | 1,670 | 6,775 | 758 | 2,002 | 553 | 138 | 95 | 20,610 | 1,414 | 2,034 | 629 | 637 | 239 |
| Airport Area | 23,764 | 1,224 | 21,068 | 1,103 | 14,539 | 1,053 | 2,787 | 565 | 83 | 65 | 2,108 | 392 | 313 | 266 | 1,238 | 337 |
| Aiea | 32,817 | 1,624 | 24,131 | 1,444 | 4,628 | 556 | 835 | 285 | 38 | 41 | 15,228 | 1,219 | 3,077 | 670 | 325 | 132 |
| Waiau/Pacific Palisades | 45,605 | 1,734 | 33,656 | 1,508 | 6,036 | 610 | 901 | 244 | 62 | 63 | 23,707 | 1,309 | 2,307 | 615 | 643 | 268 |
| EWA | 121,520 | 3,739 | 86,647 | 3,302 | 22,810 | 1,473 | 3,929 | 794 | 210 | 113 | 47,261 | 2,739 | 11,189 | 1,763 | 1,248 | 403 |
| Ewa Villages/Honouliuli | 6,585 | 1,073 | 4,823 | 931 | 220 | 97 | 61 | 96 | 20 | 33 | 4,297 | 935 | 224 | 148 | 1 | 2 |
| Ewa Gentry/West Loch | 33,616 | 1,749 | 24,272 | 1,663 | 5,122 | 762 | 1,047 | 338 | 52 | 54 | 15,344 | 1,540 | 2,135 | 756 | 572 | 247 |
| Ewa Beach/Iroquois Point | 19,492 | 1,709 | 14,559 | 1,486 | 3,556 | 469 | 536 | 229 | 23 | 39 | 8,379 | 1,343 | 1,824 | 609 | 241 | 192 |
| Ocean Pointe | 13,153 | 976 | 9,857 | 903 | 4,365 | 692 | 576 | 195 | 66 | 75 | 4,062 | 674 | 675 | 476 | 113 | 108 |
| Kalaeloa/Campbell Industrial Park | 2,491 | 440 | 1,733 | 360 | 532 | 168 | 238 | 182 | 33 | 36 | 295 | 102 | 613 | 301 | 22 | 38 |
| Ko Olina/Honokai Hale | 2,961 | 377 | 2,410 | 347 | 1,251 | 184 | 41 | 27 | 0 | 0 | 691 | 210 | 411 | 275 | 16 | 24 |
| City Of Kapolei | 2,980 | 403 | 2,517 | 406 | 949 | 249 | 188 | 259 | 0 | 0 | 1,207 | 302 | 43 | 48 | 130 | 195 |
| Kapolei Villages | 16,899 | 1,634 | 10,538 | 1,443 | 1,737 | 423 | 135 | 88 | 0 | 0 | 5,937 | 1,014 | 2,685 | 1,088 | 44 | 47 |
| Kapolei East | 3,541 | 892 | 1,355 | 438 | 122 | 92 | 20 | 30 | 1 | 4 | 539 | 283 | 658 | 348 | 15 | 22 |
| Makakilo/Makaiwa Hills/Kunia | 19,802 | 1,389 | 14,583 | 1,250 | 4,956 | 755 | 1,087 | 554 | 15 | 19 | 6,510 | 866 | 1,921 | 667 | 94 | 102 |

TABLE A-4. CONTINUED

| | | | | | IAE |)LL A-4 | 4, CONTII | | WHO REPOR | TED ON | E DACE | | | | | |
|--------------------------|----------------|-------|----------|-------|----------|---------|----------------------|--------|------------|--------|----------|-------|-----------------------------------|---------|----------|-------|
| | TOTA POPULA | | One Ra | nce | Whit | e | Black or A Americ | frican | American I | Indian | Asian Al | lone | Native Har and Other Island | Pacific | Some O | |
| | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE |
| DP SUBAREA | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| CENTRAL OAHU | 171,206 | 4,103 | 133,307 | 3,639 | 29,692 | 1,652 | 5,757 | 769 | 316 | 177 | 82,024 | 3,063 | 13,746 | 1,762 | 1,772 | 362 |
| Village Park/Kunia | 14,880 | 1,545 | 12,387 | 1,353 | 1,178 | 298 | 260 | 139 | 39 | 45 | 9,475 | 1,369 | 1,315 | 664 | 120 | 52 |
| Waipahu | 39,923 | 2,459 | 34,661 | 2,335 | 1,598 | 417 | 220 | 127 | 19 | 44 | 26,934 | 2,059 | 5,777 | 1,233 | 113 | 75 |
| Waikele | 7,442 | 935 | 5,407 | 703 | 1,632 | 509 | 136 | 93 | 0 | 0 | 3,184 | 460 | 354 | 306 | 101 | 148 |
| Waipio | 11,649 | 787 | 8,737 | 642 | 1,114 | 248 | 145 | 114 | 1 | 2 | 6,486 | 588 | 813 | 295 | 178 | 115 |
| Waiawa | 435 | 156 | 244 | 96 | 65 | 41 | 4 | 7 | 0 | 0 | 67 | 51 | 96 | 68 | 12 | 28 |
| Mililani | 33,013 | 1,423 | 22,157 | 1,172 | 5,149 | 593 | 621 | 233 | 8 | 12 | 14,560 | 1,046 | 1,606 | 443 | 213 | 88 |
| Mililani Mauka/Launani | 20,090 | 778 | 15,374 | 772 | 3,176 | 449 | 441 | 234 | 32 | 34 | 11,222 | 762 | 374 | 154 | 129 | 68 |
| Wahiawa/Whitmore | 21,944 | 1,620 | 15,746 | 1,325 | 3,281 | 705 | 366 | 159 | 0 | 0 | 9,209 | 991 | 2,698 | 778 | 192 | 122 |
| Schofield/Wheeler | 21,830 | 1,278 | 18,594 | 1,147 | 12,499 | 1,046 | 3,564 | 633 | 217 | 161 | 887 | 227 | 713 | 361 | 714 | 244 |
| EAST HONOLULU | 47,540 | 1,307 | 37,893 | 1,324 | 12,658 | 990 | 318 | 220 | 38 | 31 | 23,123 | 1,012 | 1,609 | 438 | 147 | 86 |
| Hawaii Kai | 29,066 | 1,337 | 23,381 | 1,178 | 8,654 | 791 | 277 | 215 | 18 | 17 | 13,177 | 942 | 1,134 | 427 | 121 | 83 |
| Kuliouou-Kalani Iki | 15,922 | 928 | 12,280 | 795 | 3,494 | 515 | 38 | 46 | 10 | 18 | 8,333 | 647 | 379 | 142 | 26 | 25 |
| Waialae Nui/Country Club | 2,552 | 182 | 2,232 | 187 | 510 | 142 | 3 | 6 | 10 | 17 | 1,613 | 202 | 96 | 80 | 0 | 0 |
| KOOLAU POKO | 112,829 | 2,910 | 80,420 | 2,390 | 39,753 | 1,645 | 1,648 | 374 | 330 | 137 | 28,106 | 1,488 | 9,435 | 1,113 | 1,148 | 263 |
| Kahaluu | 13,220 | 1,165 | 8,626 | 890 | 3,145 | 541 | 30 | 39 | 76 | 80 | 3,878 | 568 | 1,400 | 555 | 97 | 74 |
| Kaneohe | 38,409 | 1,653 | 26,305 | 1,293 | 8,444 | 787 | 276 | 136 | 81 | 48 | 14,475 | 1,018 | 2,891 | 581 | 138 | 79 |
| Kailua | 40,269 | 1,576 | 29,702 | 1,358 | 18,699 | 1,043 | 459 | 166 | 82 | 52 | 7,991 | 729 | 2,117 | 505 | 354 | 135 |
| Waimanalo | 9,642 | 1,068 | 5,418 | 791 | 963 | 230 | 21 | 21 | 7 | 9 | 1,392 | 546 | 3,002 | 580 | 33 | 22 |
| Mokapu | 11,289 | 868 | 10,369 | 882 | 8,502 | 809 | 862 | 303 | 84 | 85 | 370 | 163 | 25 | 30 | 526 | 196 |
| KOOLAU LOA | 15,092 | 1,124 | 10,285 | 852 | 4,634 | 592 | 147 | 102 | 52 | 45 | 1,695 | 264 | 3,658 | 659 | 99 | 62 |
| Kahuku/Kawela | 2,402 | 421 | 1,665 | 268 | 454 | 155 | 72 | 93 | 0 | 0 | 459 | 130 | 680 | 219 | 0 | 0 |
| Laie | 7,754 | 898 | 5,674 | 718 | 2,724 | 518 | 22 | 31 | 46 | 44 | 834 | 205 | 1,969 | 527 | 79 | 60 |
| Hauula/Punaluu | 3,804 | 489 | 2,259 | 357 | 1,031 | 223 | 47 | 26 | 0 | 0 | 311 | 98 | 856 | 324 | 14 | 13 |
| Kaaawa | 1,132 | 201 | 687 | 107 | 425 | 93 | 6 | 10 | 6 | 9 | 91 | 35 | 153 | 61 | 6 | 9 |
| NORTH SHORE | 17,679 | 1,402 | 13,733 | 1,226 | 9,332 | 1,108 | 434 | 181 | 89 | 82 | 2,999 | 592 | 760 | 364 | 119 | 75 |
| Mokuleia | 2,341 | 368 | 1,956 | 337 | 1,674 | 296 | 37 | 30 | 12 | 20 | 166 | 85 | 33 | 26 | 34 | 31 |
| Waialua | 3,175 | 453 | 2,340 | 390 | 960 | 253 | 0 | 0 | 1 | 2 | 1,199 | 279 | 161 | 145 | 19 | 22 |
| Haleiwa | 3,566 | 645 | 2,278 | 478 | 1,190 | 341 | 10 | 16 | 28 | 36 | 637 | 200 | 376 | 315 | 37 | 35 |
| Kawailoa | 4,008 | 597 | 3,103 | 498 | 2,168 | 555 | 364 | 174 | 48 | 71 | 418 | 242 | 76 | 57 | 29 | 55 |
| Sunset Beach/Pupukea | 4,589 | 924 | 4,056 | 872 | 3,340 | 807 | 23 | 34 | 0 | 0 | 579 | 409 | 114 | 91 | 0 | 0 |
| WAIANAE | 49,971 | 2,758 | 32,238 | 2,388 | 5,115 | 567 | 672 | 240 | 212 | 154 | 5,746 | 982 | 19,892 | 2,130 | 601 | 308 |
| Nanakuli | 11,900 | 951 | 7,633 | 852 | 451 | 164 | 85 | 60 | 93 | 88 | 886 | 328 | 6,106 | 788 | 12 | 13 |
| Maili | 12,197 | 1,872 | 8,405 | 1,670 | 1,369 | 369 | 145 | 104 | 86 | 116 | 2,033 | 799 | 4,356 | 1,418 | 416 | 295 |
| Waianae | 16,467 | 1,382 | 10,218 | 1,183 | 1,543 | 296 | 126 | 98 | 33 | 49 | 1,997 | 414 | 6,443 | 1,093 | 76 | 45 |
| Makaha/Kaena | 9.407 | 1,135 | 5,982 | 887 | 1,752 | 266 | 316 | 182 | 0 | 0 | 830 | 214 | 2,987 | 845 | 97 | 77 |
| Makana/kaena | 9,407 | 1,133 | 5,982 | 887 | 1,/32 | 200 | 210 | 197 | U | U | 830 | 214 | 2,987 | 845 | 97 | // |

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. SOURCE: Compiled by the Department of Planning and Permitting based on the 2015-2019 American Community Survey 5 Year Estimates.

TABLE A-5: POPULATION, HOUSING UNITS, HOUSEHOLDS, AND INCOME BY NEIGHBORHOOD AREA

| | TABLE A 3.1 OF GEAT | POPULATI | | TOTAL HOU | JSING | HOUSEHO | LDS | AVERAG HOUSEH SIZE | | MEDIAN HOUSEHOLD INCOME |
|----|-------------------------------|----------|-------|-----------|-------|----------|-------|--------------------------|-------|-------------------------------|
| | | | MOE | | MOE | | MOE | | MOE | |
| | NEIGHBORHOOD AREA | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate (\$) |
| | HONOLULU COUNTY TOTALS | 984,821 | 0 | 350,571 | 317 | 312,795 | 1,538 | 3.03 | 0.02 | 85,857 |
| 1 | Hawaii Kai | 29,066 | 1,337 | 11,430 | 369 | 10,254 | 393 | 2.83 | 0.17 | 126,030 |
| 2 | Kuliouou-Kalani Iki | 15,922 | 928 | 6,071 | 245 | 5,314 | 246 | 2.97 | 0.22 | 148,090 |
| 3 | Waialae-Kahala | 9,304 | 605 | 4,074 | 193 | 3,678 | 197 | 2.51 | 0.21 | 115,012 |
| 4 | Kaimuki | 18,518 | 1,055 | 6,980 | 287 | 6,122 | 286 | 2.96 | 0.22 | 101,373 |
| 5 | Diamond Head-Kapahulu | 18,860 | 1,095 | 8,727 | 347 | 7,387 | 339 | 2.53 | 0.19 | 81,118 |
| 6 | Palolo | 13,197 | 1,081 | 4,660 | 238 | 4,226 | 255 | 3.08 | 0.31 | 72,971 |
| 7 | Manoa | 24,241 | 1,235 | 7,671 | 309 | 6,955 | 307 | 2.81 | 0.20 | 100,098 |
| 8 | McCully-Moiliili | 27,199 | 1,483 | 14,290 | 504 | 12,526 | 519 | 2.12 | 0.15 | 54,011 |
| 9 | Waikiki | 17,901 | 954 | 19,324 | 526 | 10,531 | 507 | 1.68 | 0.12 | 59,702 |
| 10 | Makiki-Tantalus | 31,591 | 1,534 | 17,440 | 625 | 15,920 | 608 | 1.96 | 0.12 | 62,591 |
| 11 | Ala Moana-Kakaako | 23,045 | 1,468 | 14,998 | 630 | 11,952 | 604 | 1.92 | 0.16 | 62,887 |
| 12 | Nuuanu-Punchbowl | 17,217 | 1,393 | 6,913 | 388 | 6,028 | 388 | 2.81 | 0.29 | 93,228 |
| 13 | Downtown-Chinatown | 12,956 | 837 | 7,954 | 327 | 7,004 | 340 | 1.84 | 0.15 | 55,431 |
| 14 | Liliha/Alewa | 23,494 | 1,466 | 6,929 | 313 | 6,487 | 311 | 3.40 | 0.28 | 87,557 |
| 15 | Kalihi-Palama | 42,378 | 2,180 | 11,655 | 404 | 10,959 | 411 | 3.62 | 0.24 | 54,392 |
| 16 | Kalihi Valley | 21,082 | 1,592 | 4,630 | 250 | 4,397 | 254 | 4.71 | 0.45 | 98,123 |
| 17 | Moanalua | 9,231 | 922 | 3,234 | 219 | 2,969 | 211 | 2.95 | 0.37 | 87,478 |
| 18 | Aliamanu-Salt Lake | 39,136 | 1,820 | 12,886 | 433 | 12,057 | 441 | 3.20 | 0.19 | 84,575 |
| 19 | Airport | 23,764 | 1,224 | 6,722 | 314 | 6,320 | 326 | 3.23 | 0.24 | 75,000 |
| 20 | Aiea | 39,489 | 1,733 | 13,522 | 433 | 12,825 | 437 | 3.01 | 0.17 | 94,573 |
| 21 | Pearl City | 39,368 | 1,633 | 12,278 | 334 | 11,743 | 346 | 3.17 | 0.17 | 94,318 |
| 22 | Waipahu | 73,579 | 3,142 | 19,750 | 556 | 18,925 | 567 | 3.80 | 0.20 | 92,092 |
| 23 | Ewa | 74,592 | 2,935 | 20,806 | 511 | 19,748 | 526 | 3.76 | 0.18 | 104,945 |
| 24 | Waianae Coast | 25,874 | 1,789 | 7,798 | 311 | 6,493 | 325 | 3.83 | 0.33 | 61,821 |
| 25 | Mililani-Waipio | 33,013 | 1,423 | 10,916 | 322 | 10,576 | 328 | 3.12 | 0.17 | 95,876 |
| 26 | Wahiawa | 44,089 | 2,077 | 13,219 | 475 | 12,257 | 496 | 3.21 | 0.21 | 63,153 |
| 27 | North Shore | 17,679 | 1,402 | 6,766 | 354 | 5,531 | 349 | 3.16 | 0.32 | 84,408 |
| 28 | Koolauloa | 15,092 | 1,124 | 4,540 | 232 | 3,368 | 204 | 3.87 | 0.40 | 86,494 |
| 29 | Kahaluu | 13,220 | 1,165 | 4,399 | 218 | 4,139 | 228 | 3.17 | 0.33 | 114,172 |
| 30 | Kaneohe | 38,409 | 1,653 | 12,835 | 366 | 12,103 | 370 | 3.11 | 0.16 | 111,012 |
| 31 | Kailua | 40,269 | 1,576 | 14,112 | 383 | 13,184 | 372 | 2.98 | 0.15 | 115,292 |
| 32 | Waimanalo | 9,642 | 1,068 | 2,435 | 192 | 2,226 | 181 | 4.31 | 0.59 | 92,977 |
| 33 | Mokapu | 11,289 | 868 | 2,814 | 204 | 2,617 | 207 | 2.97 | 0.34 | 59,878 |
| 34 | Makakilo/Kapolei | 46,928 | 2,316 | 14,665 | 454 | 13,408 | 459 | 3.43 | 0.21 | 104,107 |
| 35 | Mililani Mauka/Launani Valley | 20,090 | 778 | 7,275 | 210 | 6,961 | 224 | 2.88 | 0.15 | 113,172 |
| 36 | Nanakuli-Maili | 24,097 | 2,100 | 5,853 | 364 | 5,605 | 355 | 4.14 | 0.45 | 78,994 |

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. SOURCE: Compiled by the Department of Planning and Permitting based on the 2015-2019 American Community Survey 5 Year Estimates.

TABLE A-6: HOUSING UNITS, TENURE, AND VACANCY RATES BY NEIGHBORHOOD AREA

| | | | | | | USING UNITS | | | | LIGHBOK | | ACANT HOUS | ING UNIT | S | |
|----|-------------------------------|----------|-------|----------|-------|-------------|-------|----------|---------|----------|-------|------------|----------|----------|-------|
| | | | | | | | | Home Owr | nership | | | Vacancy | | Vacancy | Rate |
| | | Occupied | | Owner Oc | | Renter Oc | _ | Rate | | Vacant L | | (Own | | (Renta | |
| | | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE |
| | NEIGHBORHOOD AREA | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| _ | HONOLULU COUNTY TOTALS | 312,795 | 1,538 | 175,751 | 2,028 | 137,044 | 1,823 | 56% | 1% | 37,776 | 1,512 | 1% | 0% | 5% | 1% |
| 1 | Hawaii Kai | 10,254 | 393 | 8,213 | 353 | 2,041 | 302 | 80% | 5% | 1,176 | 292 | 1% | 1% | 6% | 5% |
| 2 | Kuliouou-Kalani Iki | 5,314 | 246 | 4,726 | 242 | 588 | 144 | 89% | 6% | 757 | 190 | 1% | 1% | 5% | 8% |
| 3 | Waialae-Kahala | 3,678 | 197 | 2,671 | 184 | 1,007 | 182 | 73% | 6% | 396 | 145 | 2% | 2% | 2% | 2% |
| 4 | Kaimuki | 6,122 | 286 | 4,125 | 265 | 1,997 | 241 | 67% | 5% | 858 | 210 | 0% | 0% | 6% | 4% |
| 5 | Diamond Head-Kapahulu | 7,387 | 339 | 4,026 | 285 | 3,361 | 318 | 55% | 5% | 1,340 | 252 | 4% | 3% | 4% | 3% |
| 6 | Palolo | 4,226 | 255 | 2,254 | 206 | 1,972 | 242 | 53% | 6% | 434 | 143 | 2% | 2% | 7% | 4% |
| 7 | Manoa | 6,955 | 307 | 4,377 | 267 | 2,578 | 272 | 63% | 5% | 716 | 219 | 1% | 1% | 9% | 5% |
| 8 | McCully-Moiliili | 12,526 | 519 | 3,724 | 322 | 8,802 | 529 | 30% | 3% | 1,764 | 353 | 1% | 1% | 6% | 2% |
| 9 | Waikiki | 10,531 | 507 | 4,232 | 351 | 6,299 | 451 | 40% | 4% | 8,793 | 551 | 4% | 3% | 23% | 4% |
| 10 | Makiki-Tantalus | 15,920 | 608 | 6,806 | 451 | 9,114 | 595 | 43% | 3% | 1,520 | 368 | 3% | 2% | 6% | 2% |
| 11 | Ala Moana-Kakaako | 11,952 | 604 | 4,297 | 406 | 7,655 | 569 | 36% | 4% | 3,046 | 522 | 2% | 2% | 6% | 3% |
| 12 | Nuuanu-Punchbowl | 6,028 | 388 | 3,437 | 286 | 2,591 | 350 | 57% | 6% | 885 | 273 | 2% | 3% | 9% | 6% |
| 13 | Downtown-Chinatown | 7,004 | 340 | 2,301 | 218 | 4,703 | 333 | 33% | 4% | 950 | 212 | 0% | 0% | 8% | 3% |
| 14 | Liliha/Alewa | 6,487 | 311 | 3,776 | 262 | 2,711 | 277 | 58% | 5% | 442 | 145 | 0% | 0% | 0% | 0% |
| 15 | Kalihi-Palama | 10,959 | 411 | 3,108 | 263 | 7,851 | 407 | 28% | 3% | 696 | 169 | 0% | 0% | 4% | 1% |
| 16 | Kalihi Valley | 4,397 | 254 | 2,668 | 212 | 1,729 | 221 | 61% | 6% | 233 | 90 | 1% | 1% | 1% | 1% |
| 17 | Moanalua | 2,969 | 211 | 1,466 | 153 | 1,503 | 171 | 49% | 6% | 265 | 123 | 2% | 2% | 3% | 3% |
| 18 | Aliamanu-Salt Lake | 12,057 | 441 | 6,439 | 359 | 5,618 | 433 | 53% | 4% | 829 | 227 | 1% | 1% | 2% | 2% |
| 19 | Airport | 6,320 | 326 | 43 | 19 | 6,277 | 326 | 1% | 0% | 402 | 139 | 0% | 0% | 3% | 2% |
| 20 | Aiea | 12,825 | 437 | 8,157 | 362 | 4,668 | 429 | 64% | 4% | 697 | 207 | 1% | 1% | 2% | 2% |
| 21 | Pearl City | 11,743 | 346 | 7,809 | 321 | 3,934 | 278 | 66% | 3% | 535 | 177 | 0% | 1% | 5% | 3% |
| 22 | Waipahu | 18,925 | 567 | 12,147 | 478 | 6,778 | 507 | 64% | 3% | 825 | 234 | 0% | 0% | 5% | 2% |
| 23 | Ewa | 19,748 | 526 | 13,900 | 518 | 5,848 | 463 | 70% | 3% | 1,058 | 248 | 1% | 1% | 4% | 2% |
| 24 | Waianae Coast | 6,493 | 325 | 3,365 | 251 | 3,128 | 303 | 52% | 5% | 1,305 | 211 | 1% | 0% | 4% | 3% |
| 25 | Mililani-Waipio | 10,576 | 328 | 8,064 | 332 | 2,512 | 276 | 76% | 4% | 340 | 141 | 1% | 1% | 4% | 3% |
| 26 | Wahiawa | 12,257 | 496 | 3,423 | 323 | 8,834 | 481 | 28% | 3% | 962 | 206 | 0% | 0% | 2% | 1% |
| 27 | North Shore | 5,531 | 349 | 2,719 | 251 | 2,812 | 296 | 49% | 5% | 1,235 | 258 | 3% | 3% | 1% | 1% |
| 28 | Koolauloa | 3,368 | 204 | 1,761 | 156 | 1,607 | 165 | 52% | 6% | 1,172 | 148 | 1% | 1% | 3% | 2% |
| 29 | Kahaluu | 4,139 | 228 | 3,258 | 226 | 881 | 174 | 79% | 7% | 260 | 123 | 2% | 2% | 0% | 0% |
| 30 | Kaneohe | 12,103 | 370 | 8,930 | 359 | 3,173 | 301 | 74% | 4% | 732 | 203 | 1% | 1% | 4% | 3% |
| 31 | Kailua | 13,184 | 372 | 9,613 | 364 | 3,571 | 314 | 73% | 3% | 928 | 206 | 0% | 0% | 3% | 2% |
| 32 | Waimanalo | 2,226 | 181 | 1,679 | 167 | 547 | 127 | 75% | 10% | 209 | 98 | 0% | 0% | 0% | 0% |
| 33 | Mokapu | 2,617 | 207 | 21 | 21 | 2,596 | 207 | 1% | 1% | 197 | 107 | 0% | 0% | 1% | 2% |
| 34 | Makakilo/Kapolei | 13,408 | 459 | 9,035 | 414 | 4,373 | 416 | 67% | 4% | 1,257 | 224 | 1% | 1% | 4% | 2% |
| 35 | Mililani Mauka/Launani Valley | 6,961 | 224 | 5,513 | 244 | 1,448 | 232 | 79% | 4% | 314 | 145 | 0% | 0% | 2% | 2% |
| 36 | Nanakuli-Maili | 5,605 | 355 | 3,668 | 310 | 1,937 | 311 | 65% | 7% | 248 | 131 | 0% | 0% | 0% | 0% |

SOURCE: Compiled by the Department of Planning and Permitting based on the 2015-2019 American Community Survey 5 Year Estimates.

TABLE A-7: POPULATION BY AGE AND SEX BY NEIGHBORHOOD AREA

| | | | | | | | AGE | | | | OOD AR | | | SI | ΣX | |
|----|-------------------------------|--------|----------|-------|----------|-------|----------|-------|----------|-------|-----------|--------|----------|-------|----------|-------|
| | | | Under A | ge 18 | Age 18 t | o 19 | Age 20 t | to 21 | Age 22 | to 64 | Age 65 an | d Over | Mal | e | Fema | ile |
| | | MEDIAN | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE |
| | NEIGHBORHOOD AREA | AGE | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| | HONOLULU COUNTY TOTALS | 37.9 | 209,223 | 1,450 | 21,638 | 60 | 27,966 | 1,059 | 555,625 | 2,576 | 170,369 | 2,145 | 496,066 | 50 | 488,755 | 50 |
| 1 | Hawaii Kai | 47 | 6,076 | 546 | 514 | 137 | 436 | 136 | 14,943 | 776 | 7,097 | 496 | 14,427 | 783 | 14,639 | 757 |
| 2 | Kuliouou-Kalani Iki | 50 | 2,849 | 339 | 249 | 99 | 278 | 113 | 8,493 | 519 | 4,053 | 323 | 7,962 | 526 | 7,960 | 539 |
| 3 | Waialae-Kahala | 54 | 1,454 | 205 | 101 | 50 | 89 | 53 | 4,527 | 372 | 3,133 | 295 | 4,603 | 376 | 4,701 | 351 |
| 4 | Kaimuki | 48 | 2,827 | 329 | 312 | 154 | 249 | 92 | 10,370 | 606 | 4,760 | 385 | 9,100 | 624 | 9,418 | 594 |
| 5 | Diamond Head-Kapahulu | 44 | 2,585 | 343 | 269 | 102 | 504 | 163 | 11,569 | 695 | 3,933 | 354 | 9,216 | 658 | 9,644 | 642 |
| 6 | Palolo | 42 | 2,147 | 310 | 199 | 81 | 268 | 100 | 7,825 | 627 | 2,758 | 330 | 6,765 | 630 | 6,432 | 615 |
| 7 | Manoa | 38 | 3,542 | 368 | 1,926 | 326 | 1,697 | 287 | 12,034 | 700 | 5,042 | 395 | 11,763 | 729 | 12,478 | 780 |
| 8 | McCully-Moiliili | 41 | 3,948 | 491 | 473 | 160 | 1,026 | 313 | 17,254 | 951 | 4,498 | 428 | 13,529 | 891 | 13,670 | 901 |
| 9 | Waikiki | 44 | 1,644 | 298 | 274 | 152 | 264 | 125 | 12,018 | 759 | 3,701 | 355 | 9,355 | 642 | 8,546 | 569 |
| 10 | Makiki-Tantalus | 46 | 4,036 | 512 | 326 | 133 | 482 | 199 | 19,292 | 1,080 | 7,455 | 565 | 15,201 | 935 | 16,390 | 965 |
| 11 | Ala Moana-Kakaako | 44 | 3,170 | 570 | 276 | 124 | 246 | 107 | 14,448 | 927 | 4,905 | 535 | 11,223 | 890 | 11,822 | 866 |
| 12 | Nuuanu-Punchbowl | 43 | 3,312 | 459 | 292 | 139 | 373 | 163 | 9,513 | 744 | 3,727 | 375 | 8,624 | 787 | 8,593 | 768 |
| 13 | Downtown-Chinatown | 48 | 1,555 | 309 | 131 | 92 | 182 | 90 | 7,994 | 574 | 3,094 | 310 | 6,421 | 532 | 6,535 | 489 |
| 14 | Liliha/Alewa | 44 | 4,270 | 466 | 339 | 113 | 522 | 167 | 12,834 | 733 | 5,529 | 407 | 11,302 | 826 | 12,192 | 830 |
| 15 | Kalihi-Palama | 38 | 8,156 | 613 | 1,404 | 263 | 1,472 | 256 | 24,211 | 1,038 | 7,135 | 523 | 21,671 | 1,226 | 20,707 | 1,264 |
| 16 | Kalihi Valley | 42 | 4,175 | 411 | 543 | 140 | 544 | 155 | 12,101 | 706 | 3,719 | 357 | 10,595 | 881 | 10,487 | 846 |
| 17 | Moanalua | 42 | 2,025 | 336 | 159 | 86 | 240 | 108 | 4,811 | 468 | 1,996 | 268 | 4,555 | 526 | 4,676 | 527 |
| 18 | Aliamanu-Salt Lake | 36 | 9,342 | 708 | 519 | 144 | 770 | 173 | 22,125 | 978 | 6,380 | 506 | 19,606 | 1,003 | 19,530 | 1,053 |
| 19 | Airport | 25 | 8,116 | 566 | 657 | 180 | 1,223 | 252 | 13,623 | 693 | 145 | 60 | 13,445 | 810 | 10,319 | 633 |
| 20 | Aiea | 41 | 7,242 | 619 | 686 | 165 | 1,048 | 225 | 22,731 | 1,033 | 7,782 | 483 | 20,183 | 1,041 | 19,306 | 990 |
| 21 | Pearl City | 40 | 7,658 | 609 | 1,039 | 217 | 1,399 | 308 | 20,254 | 872 | 9,018 | 519 | 20,106 | 957 | 19,262 | 970 |
| 22 | Waipahu | 39 | 15,145 | 934 | 1,556 | 273 | 1,653 | 297 | 42,655 | 1,464 | 12,570 | 741 | 36,275 | 1,738 | 37,304 | 1,700 |
| 23 | Ewa | 35 | 20,393 | 1,098 | 1,187 | 235 | 1,451 | 276 | 42,911 | 1,478 | 8,650 | 625 | 36,935 | 1,602 | 37,657 | 1,677 |
| 24 | Waianae Coast | 34 | 7,754 | 632 | 535 | 152 | 615 | 152 | 13,632 | 724 | 3,338 | 310 | 12,479 | 1,011 | 13,395 | 973 |
| 25 | Mililani-Waipio | 41 | 6,824 | 549 | 484 | 145 | 895 | 198 | 18,158 | 797 | 6,652 | 434 | 16,919 | 858 | 16,094 | 777 |
| 26 | Wahiawa | 26 | 12,470 | 843 | 1,140 | 243 | 2,786 | 411 | 23,217 | 1,025 | 4,476 | 483 | 24,329 | 1,298 | 19,760 | 1,057 |
| 27 | North Shore | 34 | 4,131 | 452 | 275 | 106 | 446 | 172 | 10,321 | 710 | 2,506 | 285 | 9,007 | 804 | 8,672 | 759 |
| 28 | Koolauloa | 29 | 4,042 | 371 | 893 | 212 | 734 | 168 | 7,757 | 494 | 1,666 | 189 | 7,724 | 684 | 7,368 | 627 |
| 29 | Kahaluu | 46 | 2,627 | 385 | 253 | 113 | 280 | 145 | 7,108 | 552 | 2,952 | 316 | 6,700 | 665 | 6,520 | 631 |
| 30 | Kaneohe | 44 | 7,265 | 582 | 613 | 151 | 502 | 123 | 21,798 | 893 | 8,231 | 495 | 18,960 | 923 | 19,449 | 939 |
| 31 | Kailua | 42 | 7,977 | 568 | 823 | 198 | 1,071 | 219 | 22,329 | 862 | 8,069 | 465 | 19,683 | 889 | 20,586 | 948 |
| 32 | Waimanalo | 38 | 2,345 | 312 | 317 | 120 | 353 | 142 | 4,895 | 394 | 1,732 | 228 | 4,777 | 601 | 4,865 | 597 |
| 33 | Mokapu | 22 | 2,896 | 371 | 769 | 216 | 1,639 | 298 | 5,985 | 514 | 0 | 0 | 7,461 | 730 | 3,828 | 347 |
| 34 | Makakilo/Kapolei | 33 | 13,007 | 902 | 1,006 | 231 | 1,082 | 233 | 27,212 | 1,149 | 4,621 | 420 | 23,285 | 1,330 | 23,643 | 1,275 |
| 35 | Mililani Mauka/Launani Valley | 39 | 4,985 | 407 | 408 | 112 | 446 | 126 | 11,941 | 593 | 2,310 | 345 | 10,122 | 487 | 9,968 | 516 |
| 36 | Nanakuli-Maili | 32 | 7,233 | 751 | 691 | 188 | 701 | 212 | 12,736 | 838 | 2,736 | 365 | 11,758 | 1,129 | 12,339 | 1,214 |

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. SOURCE: Compiled by the Department of Planning and Permitting based on the 2015-2019 American Community Survey 5 Year Estimates.

TABLE A-8: RACE BY NEIGHBORHOOD AREA

| | | | | | IADEL | A 5. IIA | | NEIGHBU | | | TER 0:- | E DACE | | | | | |
|----|-------------------------------|----------|-------|----------|-------|----------|-------|-------------------|-------|--------------------|---------|----------|-------|----------|-------|----------|-------|
| | | | | | | | | Disale | | WHO REPOR | | E RACE | | | | | |
| | | тота | | | | | | Black o Africa | | Americ Indian a | | | | | | Some O | ther |
| | | POPULA | | One Ra | ice | Whit | e | Americ | | Alaska Na | | Asian Al | one | NHOI | PI | Race | |
| | | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE | | MOE |
| | NEIGHBORHOOD AREA | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) | Estimate | (+ -) |
| | HONOLULU COUNTY TOTALS | 984,821 | 0 | 756,126 | 3,801 | 206,218 | 1,246 | 23,603 | 962 | 1,900 | 289 | 420,093 | 3,068 | 93,980 | 1,799 | 10,332 | 1,019 |
| 1 | Hawaii Kai | 29,066 | 1,337 | 23,381 | 1,178 | 8,654 | 791 | 277 | 215 | 18 | 17 | 13,177 | 942 | 1,134 | 427 | 121 | 83 |
| 2 | Kuliouou-Kalani Iki | 15,922 | 928 | 12,280 | 795 | 3,494 | 515 | 38 | 46 | 10 | 18 | 8,333 | 647 | 379 | 142 | 26 | 25 |
| 3 | Waialae-Kahala | 9,304 | 605 | 7,980 | 573 | 2,811 | 422 | 23 | 26 | 10 | 17 | 4,868 | 424 | 223 | 148 | 45 | 45 |
| 4 | Kaimuki | 18,518 | 1,055 | 14,811 | 922 | 3,615 | 501 | 136 | 84 | 43 | 56 | 10,153 | 783 | 784 | 289 | 80 | 47 |
| 5 | Diamond Head-Kapahulu | 18,860 | 1,095 | 14,899 | 1,000 | 4,442 | 615 | 155 | 112 | 38 | 29 | 9,276 | 825 | 849 | 319 | 139 | 88 |
| 6 | Palolo | 13,197 | 1,081 | 10,216 | 1,004 | 1,814 | 407 | 79 | 90 | 0 | 0 | 6,378 | 735 | 1,892 | 667 | 53 | 49 |
| 7 | Manoa | 24,241 | 1,235 | 19,310 | 1,032 | 5,096 | 572 | 164 | 73 | 40 | 50 | 12,946 | 861 | 901 | 388 | 163 | 104 |
| 8 | McCully-Moiliili | 27,199 | 1,483 | 22,312 | 1,335 | 4,283 | 637 | 368 | 190 | 44 | 38 | 14,533 | 1,131 | 2,663 | 584 | 421 | 203 |
| 9 | Waikiki | 17,901 | 954 | 16,149 | 948 | 7,658 | 619 | 689 | 438 | 17 | 20 | 6,902 | 699 | 712 | 242 | 171 | 123 |
| 10 | Makiki-Tantalus | 31,591 | 1,534 | 25,882 | 1,416 | 6,355 | 607 | 817 | 353 | 77 | 58 | 15,596 | 1,105 | 2,778 | 930 | 259 | 160 |
| 11 | Ala Moana-Kakaako | 23,045 | 1,468 | 19,618 | 1,349 | 3,330 | 484 | 321 | 184 | 0 | 0 | 14,879 | 1,186 | 851 | 442 | 237 | 230 |
| 12 | Nuuanu-Punchbowl | 17,217 | 1,393 | 12,272 | 1,128 | 2,344 | 433 | 265 | 223 | 0 | 0 | 7,204 | 803 | 2,374 | 754 | 85 | 79 |
| 13 | Downtown-Chinatown | 12,956 | 837 | 11,452 | 815 | 2,257 | 300 | 248 | 133 | 15 | 21 | 7,714 | 561 | 1,085 | 562 | 133 | 82 |
| 14 | Liliha/Alewa | 23,494 | 1,466 | 18,209 | 1,352 | 2,072 | 352 | 77 | 55 | 10 | 15 | 14,439 | 1,303 | 1,509 | 460 | 102 | 79 |
| 15 | Kalihi-Palama | 42,378 | 2,180 | 35,632 | 2,002 | 2,098 | 490 | 318 | 134 | 48 | 39 | 26,886 | 1,837 | 6,106 | 858 | 176 | 92 |
| 16 | Kalihi Valley | 21,082 | 1,592 | 16,955 | 1,551 | 793 | 219 | 122 | 163 | 0 | 0 | 13,217 | 1,426 | 2,727 | 689 | 96 | 94 |
| 17 | Moanalua | 9,231 | 922 | 7,087 | 793 | 1,788 | 372 | 394 | 178 | 0 | 0 | 4,108 | 629 | 602 | 361 | 195 | 149 |
| 18 | Aliamanu-Salt Lake | 39,136 | 1,820 | 32,196 | 1,670 | 6,775 | 758 | 2,002 | 553 | 138 | 95 | 20,610 | 1,414 | 2,034 | 629 | 637 | 239 |
| 19 | Airport | 23,764 | 1,224 | 21,068 | 1,103 | 14,539 | 1,053 | 2,787 | 565 | 83 | 65 | 2,108 | 392 | 313 | 266 | 1,238 | 337 |
| 20 | Aiea | 39,489 | 1,733 | 29,433 | 1,535 | 5,142 | 587 | 931 | 301 | 38 | 41 | 19,838 | 1,323 | 3,142 | 673 | 342 | 133 |
| 21 | Pearl City | 39,368 | 1,633 | 28,598 | 1,418 | 5,587 | 582 | 809 | 224 | 62 | 63 | 19,164 | 1,204 | 2,338 | 616 | 638 | 268 |
| 22 | Waipahu | 73,579 | 3,142 | 60,877 | 2,852 | 5,522 | 763 | 761 | 239 | 59 | 63 | 45,764 | 2,572 | 8,259 | 1,464 | 512 | 208 |
| 23 | Ewa | 74,592 | 2,935 | 54,096 | 2,594 | 13,328 | 1,138 | 2,240 | 463 | 162 | 106 | 32,513 | 2,361 | 4,924 | 1,094 | 929 | 331 |
| 24 | Waianae Coast | 25,874 | 1,789 | 16,200 | 1,478 | 3,295 | 398 | 442 | 207 | 33 | 49 | 2,827 | 466 | 9,430 | 1,381 | 173 | 89 |
| 25 | Mililani-Waipio | 33,013 | 1,423 | 22,157 | 1,172 | 5,149 | 593 | 621 | 233 | 8 | 12 | 14,560 | 1,046 | 1,606 | 443 | 213 | 88 |
| 26 | Wahiawa | 44,089 | 2,077 | 34,655 | 1,768 | 15,780 | 1,262 | 3,930 | 652 | 217 | 161 | 10,411 | 1,044 | 3,411 | 857 | 906 | 273 |
| 27 | North Shore | 17,679 | 1,402 | 13,733 | 1,226 | 9,332 | 1,108 | 434 | 181 | 89 | 82 | 2,999 | 592 | 760 | 364 | 119 | 75 |
| 28 | Koolauloa | 15,092 | 1,124 | 10,285 | 852 | 4,634 | 592 | 147 | 102 | 52 | 45 | 1,695 | 264 | 3,658 | 659 | 99 | 62 |
| 29 | Kahaluu | 13,220 | 1,165 | 8,626 | 890 | 3,145 | 541 | 30 | 39 | 76 | 80 | 3,878 | 568 | 1,400 | 555 | 97 | 74 |
| 30 | Kaneohe | 38,409 | 1,653 | 26,305 | 1,293 | 8,444 | 787 | 276 | 136 | 81 | 48 | 14,475 | 1,018 | 2,891 | 581 | 138 | 79 |
| 31 | Kailua | 40,269 | 1,576 | 29,702 | 1,358 | 18,699 | 1,043 | 459 | 166 | 82 | 52 | 7,991 | 729 | 2,117 | 505 | 354 | 135 |
| 32 | Waimanalo | 9,642 | 1,068 | 5,418 | 791 | 963 | 230 | 21 | 21 | 7 | 9 | 1,392 | 546 | 3,002 | 580 | 33 | 22 |
| 33 | Mokapu | 11,289 | 868 | 10,369 | 882 | 8,502 | 809 | 862 | 303 | 84 | 85 | 370 | 163 | 25 | 30 | 526 | 196 |
| 34 | Makakilo/Kapolei | 46,928 | 2,316 | 32,551 | 2,044 | 9,482 | 936 | 1,689 | 644 | 48 | 41 | 14,748 | 1,389 | 6,265 | 1,383 | 319 | 230 |
| 35 | Mililani Mauka/Launani Valley | 20,090 | 778 | 15,374 | 772 | 3,176 | 449 | 441 | 234 | 32 | 34 | 11,222 | 762 | 374 | 154 | 129 | 68 |
| 36 | Nanakuli-Maili | 24,097 | 2,100 | 16,038 | 1,875 | 1,820 | 404 | 230 | 120 | 179 | 146 | 2,919 | 864 | 10,462 | 1,622 | 428 | 295 |

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. SOURCE: Compiled by the Department of Planning and Permitting based on the 2015-2019 American Community Survey 5 Year Estimates.

APPENDIX B: MASTER LIST OF KNOWN PROJECTS

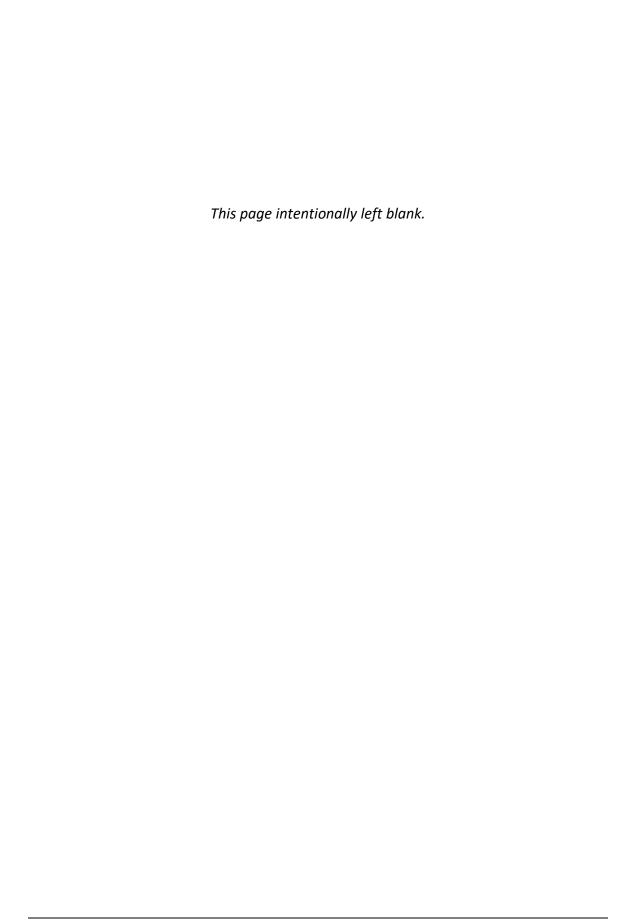


TABLE B-1: LIST OF KNOWN PROJECTS

| | 1 | | IADL | C D-1: | LIST OF | | N PROJ | ECIS | | | | |
|---|------|------|----------------|---------------|-------------|----------------|--------------|-------|-------|----------|-------|----------------|
| | | | | | | UN COMP | ITS LETED | | UN | ITS REMA | INING | |
| PROJECT NAME | DPSA | C/P* | TOTAL UNITS | START YEAR | END YEAR | BEFORE 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | BEYOND 2024 |
| OAHU TOTAL | | | 86,078 | | | 22,568 | 1,052 | 1,344 | 1,561 | 2,998 | 3,312 | 53,243 |
| 1500 Kapiolani | 109 | Р | 84 | 2031 | 2031 | 0 | 0 | 0 | 0 | 0 | 0 | 84 |
| 432 Kalaimoku | 107 | Р | 6 | 2029 | 2029 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 436 Ena Road | 107 | С | 33 | 2021 | 2021 | 0 | 0 | 33 | 0 | 0 | 0 | 0 |
| 690 Pohukaina | 109 | Р | 590 | 2027 | 2027 | 0 | 0 | 0 | 0 | 0 | 0 | 590 |
| 754 McCully | 106 | С | 10 | 2021 | 2021 | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| 820 Isenberg Street Redevelopment | 106 | Р | 277 | 2024 | 2024 | 0 | 0 | 0 | 0 | 0 | 277 | 0 |
| 888 Ala Moana Boulevard | 109 | Р | 262 | 2040 | 2040 | 0 | 0 | 0 | 0 | 0 | 0 | 262 |
| 900 Green Valley | 306 | Р | 48 | 2030 | 2039 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| Aalii | 109 | С | 751 | 2023 | 2023 | 0 | 0 | 0 | 0 | 751 | 0 | 0 |
| Ala Moana Plaza | 109 | Р | 583 | 2030 | 2030 | 0 | 0 | 0 | 0 | 0 | 0 | 583 |
| Aloha Hale Pokai Bay | 804 | Р | 8 | 2030 | 2030 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Atkinson YMCA | 109 | Р | 128 | 2040 | 2040 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| Azure Ala Moana | 109 | С | 408 | 2023 | 2023 | 0 | 0 | 0 | 0 | 408 | 0 | 0 |
| BYU Hawaii Campus | 602 | Р | 200 | 2042 | 2043 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
| Castle and Cooke Waiawa | 305 | Р | 1,500 | 2040 | 2043 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 |
| City of Kapolei Mixed Use | 207 | Р | 500 | 2027 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 500 |
| East Kapolei (DHHL) Kanehili | 209 | С | 403 | 2009 | 2021 | 362 | 13 | 28 | 0 | 0 | 0 | 0 |
| East Kapolei II (DHHL) | 209 | С | 1,433 | 2019 | 2030 | 76 | 24 | 12 | 32 | 288 | 68 | 933 |
| East Kapolei II Keahumoa Place | 209 | С | 320 | 2019 | 2020 | 75 | 245 | 0 | 0 | 0 | 0 | 0 |
| Ewa Makai by Gentry | 202 | С | 1,634 | 2009 | 2021 | 1,603 | 24 | 7 | 0 | 0 | 0 | 0 |
| Ewa Villages (completed) | 201 | С | 797 | 2006 | 2006 | 797 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ewa by Gentry | 202 | С | 6,853 | 2009 | 2024 | 6,445 | 58 | 80 | 104 | 96 | 70 | 0 |
| Franciscan Vistas Ewa | 201 | С | 293 | 2011 | 2030 | 150 | 0 | 0 | 0 | 0 | 0 | 143 |
| H & M Apartments | 107 | Р | 200 | 2031 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |

| | 1 | | | TAB | LE B-1, | CONTIN | | | | | | |
|---|------|------|----------------|---------------|-------------|----------------|--------------|------|------|----------|-------|----------------|
| | | | | | | UN COMP | ITS LETED | | UN | ITS REMA | INING | |
| PROJECT NAME | DPSA | C/P* | TOTAL UNITS | START YEAR | END YEAR | BEFORE 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | BEYOND 2024 |
| Halawa View Apartments | 118 | Р | 302 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 302 |
| Hale Kalele | 109 | Р | 201 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 201 |
| Hale Laulima Redevelopment (HPHA) | 119 | Р | 960 | 2028 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 960 |
| Hale Makana O Maili | 802 | С | 52 | 2021 | 2021 | 0 | 0 | 52 | 0 | 0 | 0 | 0 |
| Hale Makana O Moiliili | 106 | Р | 105 | 2027 | 2027 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| Hale Punawai | 113 | С | 21 | 2021 | 2021 | 0 | 0 | 21 | 0 | 0 | 0 | 0 |
| Hale Uhiwai Nalu Phase 2 | 205 | Р | 50 | 2025 | 2025 | 0 | 0 | 0 | 0 | 0 | 0 | 50 |
| Haleiwa Mixed Use | 703 | Р | 156 | 2031 | 2033 | 0 | 0 | 0 | 0 | 0 | 0 | 156 |
| Halewaiolu Senior Residences | 111 | С | 156 | 2024 | 2024 | 0 | 0 | 0 | 0 | 0 | 156 | 0 |
| Halewiliko Highlands | 118 | Р | 140 | 2024 | 2024 | 0 | 0 | 0 | 0 | 0 | 140 | 0 |
| Harbor Arms Apartments | 118 | Р | 29 | 2029 | 2029 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Hawaii City Plaza | 109 | Р | 184 | 2030 | 2030 | 0 | 0 | 0 | 0 | 0 | 0 | 184 |
| Hawaii Loa Ridge | 402 | С | 522 | 2009 | 2031 | 499 | 1 | 0 | 2 | 0 | 0 | 20 |
| Hawaii Ocean Plaza | 109 | Р | 216 | 2028 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 216 |
| Hawaii State Veterans Home | 207 | Р | 120 | 2028 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 120 |
| Hokupaa | 401 | Р | 14 | 2031 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Hoopili | 209 | С | 11,750 | 2018 | 2035 | 573 | 257 | 684 | 501 | 497 | 332 | 8,906 |
| Ililani | 109 | Р | 328 | 2024 | 2024 | 0 | 0 | 0 | 0 | 0 | 328 | 0 |
| Iwilei Affordable Housing & Homeless Resource Center | 113 | Р | 27 | 2028 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| JC Building Group | 106 | Р | 21 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| KCR Development Rentals | 109 | Р | 612 | 2031 | 2031 | 0 | 0 | 0 | 0 | 0 | 0 | 612 |
| KPT Redevelopment, Phase 2 (HPHA) | 113 | Р | 250 | 2032 | 2033 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |
| Kaala Highlands | 308 | С | 25 | 2023 | 2025 | 0 | 0 | 0 | 0 | 8 | 8 | 9 |

| | | | | ואטו | LL D-1, | CONTIN | | | | | | |
|---|------|------|-------|-------|---------|--------|------|------|------|----------|-------|--------|
| | | | | | | COMP | | | UN | ITS REMA | INING | |
| | | | TOTAL | START | END | BEFORE | | | | | | BEYOND |
| PROJECT NAME | DPSA | C/P* | UNITS | YEAR | YEAR | 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | 2024 |
| Kahala Loa Cluster | 102 | Р | 16 | 2031 | 2031 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Kakaina Subdivision | 504 | С | 45 | 2018 | 2023 | 22 | 2 | 7 | 7 | 7 | 0 | 0 |
| Kalaeloa Master Plan | 205 | Р | 4,000 | 2031 | 2050 | 0 | 0 | 0 | 0 | 0 | 0 | 4,000 |
| Kalanihuia Redevelopment (HPHA) | 113 | Р | 350 | 2027 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 350 |
| Kamehameha Homes & Kaahumanu Redevelopment (HPHA) | 113 | Р | 2,127 | 2030 | 2039 | 0 | 0 | 0 | 0 | 0 | 0 | 2,127 |
| Kanakila Affordable Housing (HPHA) | 112 | Р | 800 | 2030 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 800 |
| Kaonohi Makai | 118 | Р | 1,866 | 2033 | 2042 | 0 | 0 | 0 | 0 | 0 | 0 | 1,866 |
| Kapolei West | 205 | Р | 2,500 | 2031 | 2042 | 0 | 0 | 0 | 0 | 0 | 0 | 2,500 |
| Kauhale Village- Waimanalo | 504 | Р | 11 | 2028 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Kaukamana Hale | 802 | Р | 14 | 2032 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Kealii by Gentry | 209 | С | 66 | 2020 | 2022 | 0 | 7 | 37 | 22 | 0 | 0 | 0 |
| Kihapai Place Apartments | 503 | Р | 42 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| Kilanikoa Development | 308 | С | 18 | 2019 | 2028 | 1 | 3 | 0 | 2 | 2 | 2 | 8 |
| Ko Olina | 206 | С | 4,450 | 2009 | 2030 | 1,164 | 0 | 0 | 0 | 0 | 0 | 3,286 |
| Koa Ridge | 304 | С | 3,500 | 2021 | 2032 | 0 | 0 | 200 | 200 | 200 | 300 | 2,600 |
| Kokea Center | 113 | P | 309 | 2035 | 2035 | 0 | 0 | 0 | 0 | 0 | 0 | 309 |
| Kokua Senior Affordable Housing | 111 | Р | 223 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 223 |
| Koula | 109 | С | 565 | 2024 | 2024 | 0 | 0 | 0 | 0 | 0 | 565 | 0 |
| Kulana Hale II (Kapolei Mixed Use) | 207 | С | 297 | 2020 | 2022 | 0 | 154 | 0 | 143 | 0 | 0 | 0 |
| Kumuwai | 106 | С | 30 | 2020 | 2020 | 0 | 30 | 0 | 0 | 0 | 0 | 0 |
| Leoole Subdivision | 703 | P | 25 | 2045 | 2045 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Lilia Waikiki | 107 | Р | 401 | 2022 | 2022 | 0 | 0 | 0 | 401 | 0 | 0 | 0 |

| | | | | .,,, | , | UN | | | | | | |
|---|------|------|-------|-------|------|--------|------|------|----------|----------|-------|--------|
| | | | | | | COMP | | | UN | ITS REMA | INING | |
| | | | TOTAL | START | END | BEFORE | | | <u> </u> | | | BEYOND |
| PROJECT NAME | DPSA | C/P* | UNITS | YEAR | YEAR | 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | 2024 |
| Liliha Terrace Cluster | 112 | Р | 11 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Live Work Play Aiea | 118 | Р | 1,401 | 2029 | 2036 | 0 | 0 | 0 | 0 | 0 | 0 | 1,401 |
| Lydia's House | 111 | С | 18 | 2021 | 2021 | 0 | 0 | 18 | 0 | 0 | 0 | 0 |
| Maili (Voice of America) | 802 | Р | 250 | 2023 | 2024 | 0 | 0 | 0 | 0 | 125 | 125 | 0 |
| Makaha Rental Housing | 805 | Р | 90 | 2031 | 2033 | 0 | 0 | 0 | 0 | 0 | 0 | 90 |
| Makaha Valley Subdivision | 805 | Р | 100 | 2042 | 2042 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Makaiwa Hills | 210 | Р | 4,200 | 2027 | 2039 | 0 | 0 | 0 | 0 | 0 | 0 | 4,200 |
| Makakilo (completed) | 210 | С | 2,320 | 2005 | 2005 | 2,320 | 0 | 0 | 0 | 0 | 0 | 0 |
| Makakilo Heights Lots | 210 | С | 395 | 2009 | 2024 | 386 | 1 | 0 | 2 | 1 | 5 | 0 |
| Makua Alii & Paoakalani Redevelopment (HPHA) | 109 | Р | 490 | 2029 | 2031 | 0 | 0 | 0 | 0 | 0 | 0 | 490 |
| Manaolana Place | 109 | Р | 109 | 2028 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 109 |
| Mandalay by the Park | 302 | Р | 40 | 2027 | 2027 | 0 | 0 | 0 | 0 | 0 | 0 | 40 |
| Mauna Olu Cottages | 805 | С | 120 | 2020 | 2022 | 0 | 22 | 60 | 38 | 0 | 0 | 0 |
| Mayor Wright Homes Redevelopment (HPHA) | 113 | Р | 2,140 | 2028 | 2037 | 0 | 0 | 0 | 0 | 0 | 0 | 2,140 |
| Meheula Vista | 307 | С | 301 | 2017 | 2024 | 226 | 0 | 0 | 0 | 0 | 75 | 0 |
| Mohala Mai | 106 | С | 30 | 2021 | 2021 | 0 | 0 | 30 | 0 | 0 | 0 | 0 |
| Moiliili Gateway (Puck's Alley) | 106 | Р | 330 | 2027 | 2029 | 0 | 0 | 0 | 0 | 0 | 0 | 330 |
| Moiliili Gateway (Varsity) | 106 | Р | 360 | 2030 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 360 |
| Na Pali Haweo (by lot owners) | 401 | С | 190 | 2009 | 2034 | 178 | 0 | 1 | 0 | 0 | 0 | 11 |
| Nanaikeola Village | 801 | Р | 142 | 2030 | 2030 | 0 | 0 | 0 | 0 | 0 | 0 | 142 |
| Nohona Hale | 109 | С | 111 | 2020 | 2020 | 0 | 111 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | UN | ITS | | | | | |
|---|------|------|-------------|---------------|-------------|----------------|-------|------|------|----------|-------|----------------|
| | | | | | | COMP | LETED | | UN | ITS REMA | INING | |
| PROJECT NAME | DPSA | C/P* | TOTAL UNITS | START YEAR | END YEAR | BEFORE 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | BEYOND 2024 |
| North Laie | 602 | Р | 200 | 2042 | 2043 | 0 | 0 | 0 | 0 | 0 | 0 | 200 |
| Ocean Pointe/Hoakalei Residences | 203 | С | 4,850 | 2009 | 2030 | 3,975 | 1 | 0 | 0 | 50 | 100 | 724 |
| Ohana Hale | 106 | Р | 180 | 2027 | 2027 | 0 | 0 | 0 | 0 | 0 | 0 | 180 |
| Ola Ka Ilima Artspace Lofts | 109 | С | 84 | 2020 | 2020 | 0 | 84 | 0 | 0 | 0 | 0 | 0 |
| Olomana Heights | 504 | Р | 26 | 2019 | 2033 | 1 | 1 | 0 | 2 | 2 | 2 | 18 |
| Pacific Island Investments | 302 | Р | 32 | 2027 | 2027 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Palailai Residential | 210 | Р | 350 | 2031 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 350 |
| Pau Street Multifamily Dwelling | 107 | Р | 6 | 2025 | 2025 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Pilina Homes | 201 | Р | 142 | 2023 | 2024 | 0 | 0 | 0 | 0 | 50 | 92 | 0 |
| Pokai Bay | 804 | С | 125 | 2008 | 2023 | 55 | 12 | 23 | 25 | 10 | 0 | 0 |
| Puuwai Momi Redevelopment (HPHA) | 118 | Р | 1,240 | 2027 | 2033 | 0 | 0 | 0 | 0 | 0 | 0 | 1,240 |
| Queen Emma Tower Redevelopment | 111 | С | 71 | 2022 | 2022 | 0 | 0 | 0 | 71 | 0 | 0 | 0 |
| Residence at Maunakea | 111 | С | 39 | 2021 | 2021 | 0 | 0 | 39 | 0 | 0 | 0 | 0 |
| Royal Kunia, Phase 2 | 301 | Р | 1,850 | 2029 | 2036 | 0 | 0 | 0 | 0 | 0 | 0 | 1,850 |
| Sky Ala Moana | 109 | Р | 474 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 474 |
| Skyline Honolulu | 110 | Р | 110 | 2030 | 2030 | 0 | 0 | 0 | 0 | 0 | 0 | 110 |
| Sunset Beach Colony (by lot owners) | 705 | С | 24 | 2009 | 2028 | 18 | 0 | 0 | 0 | 1 | 0 | 5 |
| The Block 803 Waimanu | 109 | С | 153 | 2024 | 2024 | 0 | 0 | 0 | 0 | 0 | 153 | 0 |
| The Central | 109 | С | 513 | 2024 | 2024 | 0 | 0 | 0 | 0 | 0 | 513 | 0 |
| The Park on Keeaumoku | 109 | Р | 964 | 2032 | 2032 | 0 | 0 | 0 | 0 | 0 | 0 | 964 |
| The Residences at Bishop Place | 111 | Р | 493 | 2023 | 2023 | 0 | 0 | 0 | 0 | 493 | 0 | 0 |

| | ı | | 1 | ואסו | LL D-1, | CONTIN | | | | | | |
|---|------|------|-------|-------|---------|--------|-------|------|------|---------------|-------|--------|
| | | | | | | COMP | | | LIN | ITS REMA | INING | |
| | | | TOTAL | START | END | BEFORE | LLILD | | 011 | I I S INCIVIA | | BEYOND |
| PROJECT NAME | DPSA | C/P* | UNITS | YEAR | YEAR | 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | 2024 |
| The Rise at Salt Lake | 116 | Р | 56 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| The Woods at Ahuimanu | 501 | Р | 44 | 2030 | 2030 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| Victoria Place | 109 | Р | 350 | 2027 | 2027 | 0 | 0 | 0 | 0 | 0 | 0 | 350 |
| Villages of Kapolei (completed) | 208 | С | 3,225 | 2008 | 2008 | 3,225 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wai Kaloi (Palehua East B) | 210 | С | 275 | 2009 | 2022 | 268 | 2 | 2 | 3 | 0 | 0 | 0 |
| Waialae Iki V, Phase 2 | 402 | С | 143 | 2009 | 2028 | 134 | 0 | 0 | 1 | 1 | 1 | 6 |
| Waianae Increment 4 | 804 | Р | 8 | 2023 | 2023 | 0 | 0 | 0 | 0 | 8 | 0 | 0 |
| Waikalua Bayside | 502 | С | 20 | 2017 | 2022 | 15 | 0 | 0 | 5 | 0 | 0 | 0 |
| Waimanalo Residential and Subsistence Agriculture Lots (DHHL) | 504 | Р | 175 | 2028 | 2028 | 0 | 0 | 0 | 0 | 0 | 0 | 175 |
| Waipahu I & II & Hoolulu/Kamalu Redevelopment (HPHA) | 302 | Р | 740 | 2030 | 2033 | 0 | 0 | 0 | 0 | 0 | 0 | 740 |
| Waipahu Rentals | 302 | Р | 570 | 2027 | 2030 | 0 | 0 | 0 | 0 | 0 | 0 | 570 |
| West Loch Affordable Housing | 202 | Р | 123 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 123 |
| West Loch Modular Housing | 202 | Р | 58 | 2026 | 2026 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |

*C/P: Committed or Proposed

TABLE B-2: AFFORDABLE HOUSING PROJECTS

| | | IABLE | AFFORI | DABLE TS | | | DENTAL PROJECTS | | | | |
|---------------------------------|------|---------------------------|----------------|-------------|------|------|-----------------|----------|----------------|-------------|---------------|
| PROJECT NAME | DPSA | TOTAL AFFORD. UNITS | BEFORE 2020 | 2020 | 2021 | 2022 | 2023 | S REMAII | BEYOND 2024 | TOTAL UNITS | AFFORD. UNITS |
| OAHU TOTAL | DISA | 33,326 | 8,572 | 748 | 427 | 502 | 835 | 1,508 | 20,734 | 20,560 | 15,809 |
| 1500 Kapiolani | 109 | 78 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 78 | 78 |
| 432 Kalaimoku | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| 436 Ena Road | 107 | 33 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 33 | 33 |
| 690 Pohukaina | 109 | 434 | 0 | 0 | 0 | 0 | 0 | 0 | 434 | 434 | 434 |
| 754 McCully | 106 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 10 | 10 |
| 820 Isenberg Street | 100 | 10 | | | 10 | | | | | | 10 |
| Redevelopment | 106 | 277 | 0 | 0 | 0 | 0 | 0 | 277 | 0 | 277 | 277 |
| 888 Ala Moana | | | | | | | | | | | |
| Boulevard | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 900 Green Valley | 306 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Aalii | 109 | 150 | 0 | 0 | 0 | 0 | 150 | 0 | 0 | 0 | 0 |
| Ala Moana Plaza | 109 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 583 | 120 |
| Aloha Hale Pokai | | | | | | | | | | | |
| Bay | 804 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Atkinson YMCA | 109 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 0 | 0 |
| Azure Ala Moana | 109 | 78 | 0 | 0 | 0 | 0 | 78 | 0 | 0 | 78 | 78 |
| BYU Hawaii Campus | 602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Castle and Cooke | | | | | | | | | | | |
| Waiawa | 305 | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 450 | 0 | 0 |
| City of Kapolei | 207 | 450 | | | | | | | 450 | 500 | 450 |
| Mixed Use | 207 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 500 | 150 |
| East Kapolei (DHHL) Kanehili | 209 | 403 | 362 | 13 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |
| East Kapolei II | 203 | 403 | 302 | 13 | 20 | | | | | | |
| (DHHL) | 209 | 500 | 76 | 24 | 12 | 32 | 288 | 68 | 0 | 500 | 500 |
| East Kapolei II | | | | | | | | | | | |
| Keahumoa Place | 209 | 320 | 75 | 245 | 0 | 0 | 0 | 0 | 0 | 320 | 320 |
| Ewa Makai by | | | | | | | | | | | |
| Gentry | 202 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ewa Villages | 201 | 797 | 797 | 0 | _ | 0 | _ | _ | _ | | |
| (completed) | 201 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ewa by Gentry Franciscan Vistas | 202 | 2,769 | 2,657 | 0 | 0 | 0 | 42 | 70 | 0 | 112 | 112 |
| Ewa | 201 | 293 | 150 | 0 | 0 | 0 | 0 | 0 | 143 | 150 | 0 |

| | | | AFFORI UNI | TS | | | | | | | |
|--|------|------------------|---------------|-------|------|--------|----------|----------|----------------|-------|-------------------|
| | | TOTAL AFFORD. | BEFORE | LETED | A | FFORDA | BLE UNIT | S REMAII | NING BEYOND | TOTAL | PROJECTS AFFORD. |
| PROJECT NAME | DPSA | UNITS | 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | 2024 | UNITS | UNITS |
| H & M Apartments | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 0 |
| Halawa View | | | | | | | | | | | |
| Apartments | 118 | 302 | 0 | 0 | 0 | 0 | 0 | 0 | 302 | 302 | 302 |
| Hale Kalele | 109 | 201 | 0 | 0 | 0 | 0 | 0 | 0 | 201 | 201 | 201 |
| Hale Laulima Redevelopment (HPHA) | 119 | 960 | 0 | 0 | 0 | 0 | 0 | 0 | 960 | 960 | 960 |
| Hale Makana O | | 300 | | | | | | | 300 | 300 | 300 |
| Maili | 802 | 52 | 0 | 0 | 52 | 0 | 0 | 0 | 0 | 52 | 52 |
| Hale Makana O Moiliili | 106 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 105 | 105 |
| Hale Punawai | 113 | 21 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 21 | 21 |
| Hale Uhiwai Nalu | | | | | | | | | | | |
| Phase 2 | 205 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | 50 | 50 |
| Haleiwa Mixed Use | 703 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 156 | 156 | 156 |
| Halewaiolu Senior | | | | | | | | | | | |
| Residences | 111 | 156 | 0 | 0 | 0 | 0 | 0 | 156 | 0 | 156 | 156 |
| Halewiliko | | | | | | | | | | | |
| Highlands | 118 | 140 | 0 | 0 | 0 | 0 | 0 | 140 | 0 | 140 | 140 |
| Harbor Arms | 118 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 29 | 29 |
| Apartments | 1 | | | | | | - | | · | - | · |
| Hawaii City Plaza | 109 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 37 | 37 |
| Hawaii Loa Ridge | 402 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii Ocean Plaza | 109 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 33 |
| Hawaii State | 207 | 0 | 0 | 0 | | 0 | | | | 420 | |
| Veterans Home | 207 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 0 |
| Hokupaa | 401 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hoopili | 209 | 3,525 | 132 | 72 | 151 | 182 | 0 | 0 | 2,988 | 1,000 | 200 |
| Ililani | 109 | 197 | 0 | 0 | 0 | 0 | 0 | 197 | 0 | 0 | 0 |
| Iwilei Affordable Housing & Homeless | | | | | | | | | | | |
| Resource Center | 113 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 27 |
| JC Building Group | 106 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 21 | 21 |

| AFFORDABLE | | | | | | | | | | | | |
|---|------------|---------------------------|------------------------|------|------|--------|-----------------|------|----------------|----------------|------------------|--|
| | | | AFFORI UNI COMPI | ITS | А | FFORDA | RENTAL PROJECTS | | | | | |
| PROJECT NAME | DPSA | TOTAL AFFORD. UNITS | BEFORE 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | BEYOND 2024 | TOTAL UNITS | AFFORD. UNITS | |
| KCR Development Rentals | 109 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 84 | 84 | |
| KPT Redevelopment, Phase 2 (HPHA) | 113 | 250 | 0 | 0 | 0 | 0 | 0 | 0 | 250 | 250 | 250 | |
| Kaala Highlands | 308 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Kahala Loa Cluster | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Kakaina Subdivision | 504 | 45 | 22 | 2 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | |
| Kalaeloa Master Plan | 205 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Kalanihuia Redevelopment (HPHA) | 113 | 350 | 0 | 0 | 0 | 0 | 0 | 0 | 350 | 350 | 350 | |
| Kamehameha Homes & Kaahumanu Redevelopment | 442 | 2.427 | | | 0 | 0 | | 0 | 2.427 | 2.427 | 2.427 | |
| (HPHA) Kanakila Affordable Housing (HPHA) | 113 | 2,127 | 0 | 0 | 0 | 0 | 0 | 0 | 2,127 | 2,127 800 | 2,127 | |
| Kaonohi Makai | 118 | 373 | 0 | 0 | 0 | 0 | 0 | 0 | 373 | 0 | 0 | |
| Kapolei West | 205 | 750 | 0 | 0 | 0 | 0 | 0 | 0 | 750 | 185 | 0 | |
| Kauhale Village- Waimanalo | 504 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 | 11 | |
| Kaukamana Hale | 802 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | |
| Kealii by Gentry | 209 | 8 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | |
| Kihapai Place Apartments | 503 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | |
| Kilanikoa | ĺ | | | | | | | | | | | |
| Development | 308 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 202 | 0 | |
| Ko Olina | 206 304 | 392 1,075 | 392 0 | 0 | 0 | 0 | 0 | 0 | 0 1,075 | 392 375 | 392 375 | |
| Koa Ridge | l I | 1,075 | 0 | 0 | 0 | 0 | 0 | 0 | 1,075 | | | |
| Kokea Center Kokua Senior | 113 | | | | | | | | | 110 | 0 | |
| Affordable Housing | 111 | 223 | 0 | 0 | 0 | 0 | 0 | 0 | 223 | 223 | 223 | |

| | | | AFFORI | DARIE | | IIIOL | | | | | |
|---|------|---------------------------|----------------|-------|------|--------|-----------------|------|----------------|----------------|---------------|
| | | | UNI | | | | | | | | |
| | | | COMPI | | Δ | FFORDA | RENTAL PROJECTS | | | | |
| PROJECT NAME | DPSA | TOTAL AFFORD. UNITS | BEFORE 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | BEYOND 2024 | TOTAL UNITS | AFFORD. UNITS |
| Koula | 109 | 62 | 0 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 |
| Kulana Hale II (Kapolei Mixed Use) | 207 | 297 | 0 | 154 | 0 | 143 | 0 | 0 | 0 | 297 | 297 |
| Kumuwai | 106 | 30 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 30 |
| Leoole Subdivision | 703 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 |
| Lilia Waikiki | 107 | 38 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 401 | 38 |
| Liliha Terrace Cluster | 112 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 |
| Live Work Play Aiea | 118 | 775 | 0 | 0 | 0 | 0 | 0 | 0 | 775 | 255 | 0 |
| Lydia's House | 111 | 18 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 18 | 18 |
| Maili (Voice of America) | 802 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Makaha Rental Housing | 805 | 90 | 0 | 0 | 0 | 0 | 0 | 0 | 90 | 90 | 90 |
| Makaha Valley Subdivision | 805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Makaiwa Hills | 210 | 1,205 | 0 | 0 | 0 | 0 | 0 | 0 | 1,205 | 205 | 205 |
| Makakilo (completed) | 210 | 355 | 355 | 0 | 0 | 0 | 0 | 0 | 0 | 300 | 0 |
| Makakilo Heights Lots | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Makua Alii & Paoakalani Redevelopment | 100 | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 400 | 400 |
| (HPHA) | 109 | 490 | 0 | 0 | 0 | 0 | | 0 | 490 | 490 | 490 |
| Manaolana Place Mandalay by the | 109 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 20 |
| Park | 302 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 |
| Mauna Olu Cottages | 805 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mayor Wright Homes Redevelopment (HPHA) | 113 | 1,290 | 0 | 0 | 0 | 0 | 0 | 0 | 1,290 | 2,140 | 1,290 |
| Meheula Vista | 307 | 301 | 226 | 0 | 0 | 0 | 0 | 75 | 0 | 301 | 301 |
| Mohala Mai | 106 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 30 | 30 |

| | | | AFFORI | DABLE | | | | | | | | |
|--|------|---------------------------|----------------|-------|----------------------------|------|------|------|----------------|-----------------|------------------|--|
| | | | UNI | | | | | | | | | |
| | | | COMP | LETED | AFFORDABLE UNITS REMAINING | | | | | RENTAL PROJECTS | | |
| PROJECT NAME | DPSA | TOTAL AFFORD. UNITS | BEFORE 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | BEYOND 2024 | TOTAL UNITS | AFFORD. UNITS | |
| Moiliili Gateway | | 511115 | | | | | | | | | 00 | |
| (Puck's Alley) | 106 | 198 | 0 | 0 | 0 | 0 | 0 | 0 | 198 | 330 | 198 | |
| Moiliili Gateway | | | | | | | | | | | | |
| (Varsity) | 106 | 216 | 0 | 0 | 0 | 0 | 0 | 0 | 216 | 360 | 216 | |
| Na Pali Haweo (by | | | | | | | | | | | | |
| lot owners) | 401 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Nanaikeola Village | 801 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | |
| Nohona Hale | 109 | 111 | 0 | 111 | 0 | 0 | 0 | 0 | 0 | 111 | 111 | |
| North Laie | 602 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | |
| Ocean Pointe/Hoakalei Residences | 203 | 787 | 787 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Ohana Hale | 106 | 108 | 0 | 0 | 0 | 0 | 0 | 0 | 108 | 0 | 0 | |
| Ola Ka Ilima Artspace Lofts | 109 | 84 | 0 | 84 | 0 | 0 | 0 | 0 | 0 | 84 | 84 | |
| Olomana Heights | 504 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pacific Island Investments | 302 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Palailai Residential | 210 | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 105 | 0 | 0 | |
| Pau Street Multifamily Dwelling | 107 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pilina Homes | 201 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Pokai Bay | 804 | 70 | 0 | 12 | 23 | 25 | 10 | 0 | 0 | 0 | 0 | |
| Puuwai Momi Redevelopment (HPHA) | 118 | 1,240 | 0 | 0 | 0 | 0 | 0 | 0 | 1,240 | 1,240 | 1,240 | |
| Queen Emma Tower | | | | | | | | | | | 74 | |
| Redevelopment | 111 | 71 | 0 | 0 | 0 | 71 | 0 | 0 | 0 | 71 | 71 | |
| Residence at Maunakea | 111 | 39 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 39 | 39 | |
| Royal Kunia, Phase | 111 | 39 | U | 0 | 39 | U | U | U | U | 39 | 39 | |
| 2 | 301 | 533 | 0 | 0 | 0 | 0 | 0 | 0 | 533 | 0 | 0 | |
| Sky Ala Moana | 109 | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 84 | 84 | |

| | | | | CONT | | | | | | | | |
|------|-------------------|---|---|---|----------------------------|------|------|--------|-------|-----------------|--|--|
| | | | | | | | | | | | | |
| | | _ | UNITS | | | | | | | | | |
| | | COMPI | LETED | А | AFFORDABLE UNITS REMAINING | | | | | RENTAL PROJECTS | | |
| | AFFORD. | BEFORE | | | | | | BEYOND | TOTAL | AFFORD. | | |
| DPSA | UNITS | 2020 | 2020 | 2021 | 2022 | 2023 | 2024 | 2024 | UNITS | UNITS | | |
| 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 705 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | |
| 109 | 153 | 0 | 0 | 0 | 0 | 0 | 153 | 0 | 0 | 0 | | |
| 109 | 310 | 0 | 0 | 0 | 0 | 0 | 310 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | |
| 109 | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 0 | 0 | | |
| | | | | | | | | | | | | |
| 111 | 252 | 0 | 0 | 0 | 0 | 252 | 0 | 0 | 493 | 252 | | |
| | | | | | | | | | | | | |
| 116 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | | |
| | | | | | | | | | | | | |
| | | | | | | | | i | i | 0 | | |
| 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | |
| 208 | 2,541 | 2,541 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | |
| 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | _ | _ | | _ | | | | | |
| 402 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 004 | 0 | 0 | 0 | | | | 0 | | | | | |
| | | | | | | | | | i | 0 | | |
| 502 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 504 | 175 | 0 | 0 | 0 | 0 | 0 | 0 | 175 | _ | 0 | | |
| 304 | 1/3 | U | U | U | U | l U | U | 1/3 | l U | l U | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 302 | 740 | n | n | 0 | 0 | 0 | 0 | 740 | 740 | 740 | | |
| | | | | | | | | i | i | 570 | | |
| 302 | 370 | U | | | | J | 0 | 3,0 | 3,0 | 370 | | |
| 202 | 123 | n | n | n | n | 0 | n | 123 | 123 | 123 | | |
| | 123 | , , , , , , , , , , , , , , , , , , , | | | | | | 123 | 125 | 123 | | |
| 202 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 58 | 58 | | |
| | 705 109 109 | DPSA UNITS 110 0 705 0 109 153 109 310 109 128 111 252 116 42 501 0 109 0 208 2,541 210 0 804 8 502 0 504 175 302 740 302 570 202 123 | DPSA TOTAL AFFORD. UNITS BEFORE 2020 110 0 0 705 0 0 109 153 0 109 310 0 111 252 0 116 42 0 501 0 0 109 0 0 208 2,541 2,541 210 0 0 402 0 0 804 8 0 502 0 0 504 175 0 302 740 0 302 570 0 202 123 0 | DPSA TOTAL AFFORD. UNITS BEFORE 2020 2020 110 0 0 0 705 0 0 0 109 153 0 0 109 128 0 0 109 128 0 0 111 252 0 0 501 0 0 0 109 0 0 0 208 2,541 2,541 0 208 2,541 2,541 0 402 0 0 0 804 8 0 0 502 0 0 0 504 175 0 0 302 740 0 0 302 570 0 0 202 123 0 0 | DPSA | DPSA | DPSA | DPSA | No. | Note | | |